BRITAIN = B FRANCE = F GERMANY = G USA = U

PROJECT SCHEDULE (Q2 - 1997)

INPUT

* Corporate Week ** Ending date *** Working Days

ALL = A			APRIL				MAY						JUNE				
Activity	Name	Days	14* 4/4** BFG(4)***	15 4/11 A (5)	16 4/18 A (5)	17 4/25 A (5)	18 5/2 BU(5) F(3) G(4)	19 5/9 BFG(4)	20 5/16 A (5)	21 5/23 BU(5) FG(4)	22 5/30 BGU(4) F(5)		24 6/13 A (5)				
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Preliminary Report		3						-							_		
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TOTAL PLAN	-	44E2)															
TOTAL SPENT																	

Proj. Code:

Activity/Project Name: ISM 5/390 Itant Andy ", Prepared By: W. Healdow

Proj. Manager: Wilky Heldon CPR 130/03 11/96 (R)

Confidential - INPUT



BRITAIN = B FRANCE = F GERMANY = G

USA = U ALL = A

PROJECT SCHEDULE (Q3 - 1997)

* Corporate Week ** Ending date *** Working Days

			JULY					SEPTEMBER							
Activity	Name	Days	27* 7/4** BFG(5)*** U(4)***	28 7/11 A (5)	29 7/18 F(4) BGU (5)	30 7/25 A (5)	31 8/1 A(5)	32 8/8 A (5)	33 8/15 F(4) BGU (5)	34 8/22 A(5)		36 9/5 BFG(5) U (4)	37 9/12 A (5)	38 9/19 A (5)	39 9/26 A(5)
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TOTAL PLAN								-			-				
TOTAL SPENT															

Date:

PLG 300/03 04/97 (R)

Proj. Manager: Willow HADDOW

CONFIDENTIAL - INPUT



International Business Machines Purchase order

PO number/date 2000283560 05/09/1997

Vendor: 9313

INPUT 1881 LANDINGS DR MOUNTAIN VIEW, CA 94043

MAY 9 '97 08:47

Contact person/Telephone Dana L. Schwartz 914-433-5992 Fax 914-433-7506

Please deliver to: IBM Corporation Purchasing Mail Station P931 522 South Road Poughkeepsie, NY 12601

Delivery date

04/07/1997

F.O.B.: SHIPPING POINT-COLLECT Payment Terms: Within 30 days due net

Currency USD

By filling this purchase order, you the vendor, agree to comply with IBM's Standard Terms and Conditions dated November 1991. If you have not received a copy of these IBM Standard Terms and Conditions, or if you disagree with any of them, please contact your IRM representative prior to fulfilling this purchase order.

THIS PURCHASE ORDER IS IN ACCORDANCE WITH THE IBM/INPUT CONSULTING AGREEMENT # 12780, THE STATEMENT OF WORK # 12780-001, AND THE AECI AGREEMENT # 12781, WHICH IS INCOPORATED HEREIN AND MADE A PART HEREOF

Item Material Material Order qty. Unit

Description

Price per unit

Net value

00001

BRAND MANAGEMENT NETWORK COMPUTING SERV.

1 Unitless 46,000.00 46,000.00 Req tracking nbr G7VFHR-001

RESEARCH SERVICES AND ALL DELIVERABLES ASSOICATED WITH THE TELEPHONE INTERVIEWS.

BRAND MANAGEMENT NETWORK COMPUTING CUSTOMER REQUIRMENTS Do not bill NY tax, NY Direct Payment Permit # 13-087198502 Attention: DOMBROSKI Unloading Point: E47A 005 03 392-2



TO 914159613966

PAGE.003

International Business Machines

Purchase order

PO number/date 2000283560 05/09/1997

Page 2

INPUT 1881 LANDINGS DR MOUNTAIN VIEW, CA 94043

Item Material Order qty. Unit

Description

Price per unit

Net value

4,600.00

00002

TRAVEL AND ADMINSTRATIVE FEES 4,600.00

1 Unitless Req tracking nbr G7VFHR-002

TRAVEL AND ADMINSTRATIVE FEES

BRAND MANAGEMENT NETWORK COMPUTING CUSTOMER REQUIREMENTS Do not bill NY tax, NY Direct Payment Permit # 13-087198502 Attention: DOMBROSKI Unloading Point: E47A 005 03 392-2

Total net value excl. tax USD

50,600.00



Purchase order

PO number/date 2000283560

TO 91415°513966

05/09/1997

Page

INPUT 1881 LANDINGS DR MOUNTAIN VIEW, CA 94043

International Business Machines

1. Indicate complete purchase order number, item number, quantity, and IBM part or tool number, if any, in all invoices, shipping containers, packing lists, and correspondence.

2. Furnish IBM with the item(s) indicated above in accordance with all conditions specified.

3. Clearly mark carton containing Packing Slip.

4. Unless otherwise specified on the PO, send paper invoices to: IBM Corporation

Accounts Payable PO Box 9005

Endicott, NY 13761-9005

5. Direct all inquiries to the contact person listed above. Contact the buyer immediately if exception is taken to price, delivery date, terms and conditions, etc.

6. Transportation Guidelines:

1. Ship via UPS collect for shipments up to 70 pounds per shipment and within size limitations. UPS Consignee billing should be used where available.

2. If the carrier is not designated on the purchase order, contact

1-888-500-1242 for the proper routing instructions. 3. Carrier invoices are to be sent to:

IBM Corporation C/O STI

PO Box 4093

Iselin, NJ 08830-3179

4. Alternative carrier routing can only be authorized by the IBM buyer or IBM Traffic. IBM reserves the right to charge back all additional transportation expenses incurred as a result of carrier misrouting or incorrect payment terms.

5. Unauthorized transportation charges on invoices will be

deducted by Accounts Payable.



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18. NEW YORK LAW

This Agreement shall be construed, and the legal relations between the parties hereto shall be determined, in accordance with the laws of the State of New York

INPIT

19. GENERAL PROVISIONS

Any terms of this Agreement, such as those contained in the sections entitled "WARRANTIES," "INDEMNIFICATION," LIMITATION OF LIABILITY," and "RIGHTS IN DATA," which by Their nature extend beyond its expiration or termination will remain in effect until futfilled and will apply to respective successors and assignees of the parties. You may not assign, delegate or subcontract this Agreement without the prior written approval of IBM. Any act in contravention of the Gregoling shall be void. Failure by either party to enforce any provisions of this Agreement shall not be deemed a waiver of such provision, or any subsequent breach thereof. In the event that any provision of this Agreement is held to be invalid or unenforceable, the remaining provisions

20. SOLE AGREEMENT

This Agreement shall supersede all prior communications, agreements and understandings, oral or written, between the parties regarding the subject matter hereof and thereof. Only a written agreement signed by authorized representatives of both parties can modify this Agreement. Any reproduction of this Agreement made by reliable means (for example, photocopy or facsimile) will

If the provisions stated herein are understood and acceptable to you, please sign and date all copies of this Agreement and return them to the attention of the IBM Contract Coordinator as indicated in the

ACCEPTED AND AGREED:

Very truly yours.

INTERNATIONAL BUSINESS MACHINES CORPORATION

Authorized Signature



FROM MHU GEN PROCUREMENT

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Statement of Work No. 12780-001

13:42

Input shall use its best efforts to coordinate the furnishing of services to IBM with the appropriate S/390 representative to allow for IBM's input to be incorporated into all Deliverables.

9.0 DELIVERABLES/SCHEDULE

Input shall provide IBM with the following Deliverables on or about the dates specified:

Project Start on or about May 15, 1997 Draft questionnaire on or about May 22, 1997 50 to 100 Interviews, on or about June 15, 1997 recorded on audiotape where possible Survey Data Crosstabs on or about June 30, 1997 Preliminary report on or about July 8, 1997 Final Report on or about July 15, 1997

10.0 ACCEPTANCE CRITERIA

All Deliverables Items furnished under this SOW shall be subject to IBM's final review and acceptance. The terms of Section 3.0 of the Agreement shall apply to IBM's acceptance.

11.0 OTHER REQUIREMENTS SPECIAL TERMS

The services performed and Deliverable Items delivered under the Agreement shall be used solely for the purposes intended by this SOW and may not be used by Input for any other purpose including other IBM functions, without the prior written approval of the IBM Coordinator. See also Section 4.0 Confidential Information.

12.0 APPROVAL SIGNATURES

Accepted and Agreed to: INTERNATIONAL BUSINESS MACHINES CORPORATION Russ Munson, Contract Administrator Input

END OF STATEMENT OF WORK



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ng the Supplements of any), is the complete and exclusive agreement our disclosure of

Agreed ter

HPLIT

By: I- chile. F. M. Wason HADDOW

Agreed to:

** TOTA PAGE, 815 **



IBM

International Business Machines Corporation

522 South Road Poughkeepsie, NY 12601

May 12, 1997

INPUT 1881 LANDINGS DR MOUNTAIN VIEW, CA 94043

Subject:

Agreement #12780

This letter, when signed by both parties, shall constitute an Agreement between International Business Machines Corporation (IBM) and INPUT (you) under which you, as an independent contractor, will furnish certain services and Deliverable (tems to IBM.

1. SCOPE OF WORK

You will furnish to IBM the services and Deliverable Items set forth in Attachment A (Scope of Work). Additional scopes of work may be added only when reduced to writing, referencing this Agreement, and signed by IBM and you. Attachment A and such additional scopes of work, if any, are hereinafter referred to as "SOW." When requested to do so by the IBM Technical Coordinator, your services may include you collaborating with, or assisting, IBM personnel and/or others retained by IBM or for whom IBM is performing services. You shall make no commitments on behalf of IBM. This Agreement Is nonexclusive in nature and does not in any manner establish an exclusive arrangement between the parties. In no respect shall this Agreement be construed to establish or grant rights to you as IBM's distributor, dealer, reseller, sales representative or agent of any kind.

2. TERM AND TERMINATION

The term of this Agreement shall commence on the date that the last party signs it, and shall continue in effect until either party terminates the Agreement with or without cause by providing one month's prior written notice to the other party, provided, however, that this Agreement shall remain in effect regarding any SOW already in effect unless such SOW is terminated as provided for herein or until performance is completed to IBM's satisfaction.

IBM may terminate any SOW, or any portions thereof, without cause by written notice to you. Upon receipt of such notice, you must immediately stop all activities associated with the terminated SOW. You will be paid for the work performed in accordance with this Agreement and the effected SOW(s) until the effective date of termination after IBM receives and accepte services and Deliverable Items specified in the notice. Such payment shall constitute IBM's entire liability, and in no event shall such payment exceed the amount due for complete performance of the effected SOW. IBM may terminate any SOW, or any portions thereof, with causes by providing you written notice.

Payments that may have been made to you in advance, which are in excess of such amounts due for salisfactory services actually performed, shall be returned by you to IBM within 30 days following the termination or expiration date, to the address listed below:

> IBM Corporation Accounts Payable Center P. O. Box 9005 1701 North Street Endicott. NY 13761-9005



Any IBM property, including hardware or software, in your possession at the termination or expiration of this Agreement which you received from IBM without obligation of payment, shall be returned to IBM immediately upon such termination or expiration.

3. COMPENSATION

IBM will pay you for the services and Deliverable Items you furnish to IBM in accordance with the provisions of this Agreement and the applicable SOW. You shall be responsible for the payment of all taxes associated with the provision of your services and Deliverable Items to IBM under this Agreement. There are no express or Implied rights by you to receive commissions, royalties, finders fees or other considerations from IBM.

IBM shall reimburse you for reasonable and actual business travel expenses, provided that all such travel is approved in advance by IBM, in writing, and such expenses are incurred in conjunction with work as requested in the applicable SOW. Such reimbursement shall be in accordance with Attachment B (Travel Expense Guldelines).

You will remain solely liable for payment to all third parties with whom you deal in carrying out the terms of this Agreement. You agree to incorporate in order forms and contracts with such third parties a statement that the third party shall look solely to you for payment and to no other party.

4. INVOICES TO IBM

You must submit invoices to IBM for the services and Deliverable Items furnished. IBM shall make payment to you within thirty (30) days after receipt of an acceptable invoice accompanied by supporting documentation, as required by IBM, and provided that such services and Deliverable Items referenced in said invoice have been accepted by IBM in accordance with the provisions of this Agreement. All invoices must describe the services and Deliverable Items furnished to IBM and reference the appropriate purchase order number, Issued under separate cover. All invoices shall be addressed to IBM Corporation and forwarded to:

IBM Corporation Accounts Payable Center P. O. Box 9005 1701 North Street Endicott, NY 13761-9005

A copy of all invoices will be mailed to the IBM Technical Coordinator,

5. CONFIDENTIAL INFORMATION

If any confidential information is to be disclosed by IBM or you, such disclosure shall be under the terms of the Agreement for Exchange of Confidential Information (AECI) incorporated herein by reference and made part of this Agreement.

6. RIGHTS IN DATA

All of the Deliverable Items described in the SOW(s) and any other items you prepare for or submit to IBM under this Agreement (collectively referred to herein as "Deliverable Items") shall belong exclusively to IBM and shall be deemed to be works made for hire. To the extent that any of the Deliverable Items may not, by operation of law, be works made for hire, you hereby assign to IBM ownership of copyright in such Deliverable Items. IBM shall have the right to obtain and hold in its own name copyrights, registrations and similar protection which may be available in such Deliverable Items. You agree to give iBM or its designees all assistance required to perfect such rights. To the extent that any of your preexisting materials are contained in the Deliverable Items, you grant to IBM an Irrevocable, paid-up, nonexclusive, worldwide, royalty-free Itemse to: 1) use, execute, reproduce, display, perform, distribute (internally and externally) copies of, and prepare derivative works based upon such preexisting materials and derivative works based upon such presisting materials and derivative works based



and 2) authorize others to do any, some or all of the foregoing. You will obtain IBM's prior written approval before incorporating any of your preexisting materials in the Deliverable Items.

Should IBM and you mutually agree that there is a requirement to include in the Deliverable Items the materials of a third party, you agree to obtain all necessary rights and/or licenses from such third party at your expense. The terms and conditions of such rights and licenses are subject to IBM's approval and must, at a minimum, enable IBM to: 1) use, execute, reproduce, display, perform, distribute (internally and externally) copies of, and prepare derivative works based upon, such materials of a third party and derivative works thereof; and 2) authorize others to do any, some or all of the foregoing. Upon IBM's request, you shall deliver to IBM a complete copy of every agreement, license or other arrangement from which you derive your authority to grant IBM the rights and licenses granted under this Agreement. You will obtain IBM's prior written approval before incorporating the materials of a third party in the Deliverable Items.

No license or right is granted to you, either expressly or by implication, estoppel or otherwise, to publish, reproduce, prepare derivative works based upon, distribute copies of, publicly display, or perform any of such Deliverable Items, except your preexisting materials, either during or after the term of this Agreement. At the time of delivery or at such other times as IBM may request, IBM may require you to provide IBM with a certificate of originality in a form acceptable to IBM with respect to Deliverable Items. Nothing contained in this Agreement shall be construed as obligating IBM to market, publish or announce the Deliverable Items or any parts thereof, or any product or information based upon such Deliverable Items or parts thereof.

7. RECORDS

You shall maintain complete and accurate accounting records (including, but not limited to, payroll records, job cards, attendance cards and job summaries), in a form in accordance with sound accounting practices, to substantiate your charges under this Agreement for a period of two (2) years from the date of final payment hereunder, and IBM shall have access to such accounting records for purposes of audit during normal business hours during the period in which you are required to maintain such records as provided for herein.

8. YOUR AGREEMENT WITH EMPLOYEES

You will have an appropriate agreement with each of your employees, and all others whose services you may secure to perform hereunder, sufficient to enable you to comply with all of the terms of this Agreement, including, but not limited to, the sections entitled "CONFIDENTIAL INFORMATION" and "RIGHTS IN DATA." You shall cause such employees, and all others whose services you secure to perform hereunder, to execute and deliver such further certificates, acknowledgements, waivers and assignments as IBM may deem appropriate.

9. YOUR EMPLOYEES

You agree to take appropriate preventive steps, before the assignment of any of your employees to perform work under this Agreement, that you reasonably believe will ensure that your employees, and your agents' and subcontractors' employees at any level, will not engage in inappropriate conduct while on IBM premises. Inappropriate conduct shall include, but not be limited to: 1) being under the influence of, or affected by, alcohol, illegal drugs or controlled substances; 2) the manufacture, use, distribution, sale or possession of alcohol, illegal drugs or any other controlled substance except for approved medical purposes; 3) the possession of a weapon of any sort; and 4) harassment, threats or violent behavior. Violation of this provision may result in termination of this Agreement and any other remedy available to IBM at Iaw or equity. You agree to provide IBM with information regarding the preventive steps you employ upon request.

Personnel you supply, including your employees, agents and subcontractors, will be deemed your employees and will not for any purpose be considered employees or agents of IBM. You assume full responsibility for the actions of such personnel while performing services pursuant to this Agreement. You shall be solely responsible for their supervision, daily disposition and their



payment of salary (including withholding of income taxes and social security), workers' compensation, disability benefits and the like.

You shall immediately, at IBM's request and sole discretion, remove any specified employee(s), subcontractor(s) and/or agent(s) of yours from IBM's premises, and agree that they will not be reassigned to any IBM premises under this Agreement. You shall inform IBM prior to assigning any former IBM employees to perform work under this Agreement, whether or not on IBM premises. IBM reserves the right to approve or disapprove the assignment.

Nothing contained in this Agreement shall be construed as granting to you or any of your employees, agents or subcontractors rights under any IBM employee benefit plans.

10. WARRANTIES

You represent and warrant the originality of the Deliverable Items under this Agreement, and that no portion of such Deliverable Items, or their use or distribution, violates or is protected by any copyright or other intellectual property right of any third party, except as provided in the third paragraph of the "RIGHTS IN DATA" section to this Agreement. You represent and warrant that you are under no obligation or restriction, nor will you assume any such obligation or restriction, which would in any way interfere or be inconsistent with, or present a conflict of interest concerning, the services and Deliverable Items to be furnished by you under this Agreement.

You represent and warrant that any information you disclose to IBM is not confidential or proprietary to you or to any third party.

Time is of the essence in your furnishing of services and Deliverable Items to IBM. You shall apply best efforts in providing your services and Deliverable Items to IBM. You shall provide your services and Deliverable Items in a professional and workmanlike manner.

11. COMPLIANCE WITH LAWS

You agree to comply, and do all the things necessary for IBM to comply, with all applicable foreign, international, federal, state and local laws, statutes, rules, administrative orders, regulations and ordinances, as they relate to your services and Deliverable Items provided to IBM under this Agreement.

12. LIMITATION OF LIABILITY

IBM's entire liability and your exclusive remedy are set forth in this section.

Under no circumstances shall IBM be liable to you, your successors, heirs or assigns for any lost revenue, lost profits or other incidental or consequential damages, even if IBM has been advised of the possibility of such damages. In addition, in no event will IBM be liable for any damages claimed by you based on any third party claim or for damages caused by your failure to perform your responsibilities. In no event, except for claims by you for bodily injury or damage to real property or tangible personal property for which IBM is legally IBJable, will IBM be liable to you, your successors, heirs or assigns for actual damages in excess of the amount due you for complete performance pursuant to this Agreement, less any amounts already paid to you by IBM. Except for actions brought to enforce the provisions of the sections entitled "WARRANTIES". "RIGHTS IN DATA," "INDEMNIFICATION," and "CONFIDENTIAL INFORMATION," no actions, regardless of form, arising out of or in connection with this Agreement may be brought by either party more than two (2) years after the cause of such actions has occurred. The aforesaid limitations will apply, regardless of the form of action, whether in contract or in tort, including needigence.

13. ACCEPTANCE

Services and Deliverable Items you furnish under this Agreement shall be subject to final review and acceptance by IBM based upon this Agreement and its attackments and final review.



not be due before such acceptance. Any deficiencies found during such review shall be corrected by you and subject to repeat review before acceptance of the work. Any claims which IBM may have pursuant to this Agreement shall survive inspection, acceptance and payment in full.

Payments otherwise due from IBM to you for your performance under this Agreement may be withheld by IBM if (1) you deliver unsatisfactory work and do not remedy such work within a reasonable period of time, (2) you fail to meet the delivery schedule established by the IBM Technical Coordinator, or (3) you fail to provide your services in accordance with this Agreement.

14. IBM COORDINATORS

The IBM Technical Coordinator will be set forth in each SOW. The IBM Technical Coordinator, or his/her designee, will be responsible for providing IBM's requirements and to determine the acceptability, adequacy and fitness of the services and Deliverable Items you furnish under this Agreement.

Russ Munson will be the IBM Contract Coordinator. You shall direct all proposed modifications to this Agreement to the IBM Contract Coordinator at 522 South Road M/S P931, Poughkeepsie, NY 12601. His telephone number is (914)433-7643

15. INSURANCE

You shall maintain comprehensive general and vehicular liability insurance coverage for bodily injury (including death) and property damage caused by or arising out of acts or omissions of you and your employees. Certificates of such insurance, with a minimum of One Million Dollars (\$1,000,000.00) of coverage and naming IBM as an additional insured, shall be provided to IBM at IBM's request and such insurance shall be maintained for as long as this Agreement remains in effect. In no event shall such insurance be cancelled without prior written notice to IBM.

16. INDEMNIFICATION

You will, at your expense, indemnify, defend and save IBM harmless against any claims (including costs of litigation and attorneys' fees) resulting from:

- a. a breach or alleged breach of your warranties or representations under this Agreement;
- b. any alleged or actual infringement by any Deliverable Items, or any preexisting or third party materials from which any Deliverable Items are prepared, of a patent, copyright, trademark or other intellectual property right, privacy or similar right of any third party, in any country in the world: or
- c. your failure to comply with any governmental law, statute, ordinance, administrative order, rule or regulation.

You agree to indemnify, defend and save IBM harmless from and against any and all claims (including costs of litigation and attorneys' fees) for personal injury or death to persons and damage to property (including IBM's property) arising out of or in connection with or resulting from operations under this Agreement to the extent that such injuries, deaths or damage are caused by you or any of your agents or subcontractors or by anyone directly or indirectly employed by you or by them.

17. IBM TRADEMARKS

Notwithstanding any other provision of this Agreement, you are not granted hereunder any rights to use any of IBM's trademarks or trade names, or to refer to this Agreement or the services or Deliverable Items furnished hereunder, directly or indirectly, in connection with any product. service, promotion or publication, without the prior written approval of IBM,



18. NEW YORK LAW

This Agreement shall be construed, and the legal relations between the parties hereto shall be determined, in accordance with the laws of the State of New York,

19. GENERAL PROVISIONS

Any terms of this Agreement, such as those contained in the sections entitled "WARRANTIES." INDEMNIFICATION," "LIMITATION OF LIABILITY." and "RIGHTS IN DATA," which by their nature extend beyond its expiration or termination will remain in effect until fulfilled and will apply to respective successors and assignees of the parties. You may not assign, delegate or subcontract this Agreement without the prior written approval of IBM. Any act in contravention of the foregoing shall be void. Failure by either party to enforce any provisions of this Agreement shall not be deemed a waiver of such provision, or any subsequent breach thereof. In the event that any provision of this Agreement is held to be invalid or unenforceable, the remaining provisions of this Agreement shall remain in full force and effect.

20. SOLE AGREEMENT

This Agreement shall supersede all prior communications, agreements and understandings, oral or written, between the parties regarding the subject matter hereof and thereof. Only a written agreement signed by authorized representatives of both parties can modify this Agreement. Any reproduction of this Agreement made by reliable means (for example, photocopy or facsimile) will be considered an original.

Very truly yours

If the provisions stated herein are understood and acceptable to you, please sign and date all copies of this Agreement and return them to the attention of the IBM Contract Coordinator as indicated in the section entitled "IBM COORDINATORS".

	rery truly yours,
ACCEPTED AND AGREED:	INTERNATIONAL BUSINESS
INPUT	MACHINES CORPORATION
BY: T-w.iCholl.	BY:
Authorized Signature	Authorized Signature
Print Name: 7. M. W/LLSON HADOW	Print Name:
TITLE: VICE PARTITION	TITLE:
DATE: 5/8/07	



ATTACHMENT B TRAVEL EXPENSE GUIDELINES

IBM shall reimburse you in accordance with the following guidelines for reasonable & actual travel and living expenses authorized in advance by IBM and incurred solely in connection with services furnished under this Agreement. Your employees should exercise reasonable cost effectiveness when incurring these expenses.

THIRD-PARTY TRAVEL

Third parties (i.e., customers, consultants, contractors, etc.) may travel as part of their relationship with IBM. To reduce associated costs, IBM has negotiated with the major airlines to extend IBM-negotiated rates to third parties whose travel expenses are reimbursed by IBM. To obtain the discounts, one of the IBM agencies must be used. For regular business travel, the outside telephone number (ten digits) of the sponsoring IBM employee must be provided to the American Express Representative at 1-800-544-3915. For group travel (education, meetings, etc.), the course code or meeting program number must be provided to the BTI Americans (formerly named IVI Travel) representative at 1-800-584-8700.

Most hotels with the IBM-negotiated rates extend these rates to third parties whose expenses are reimbursed by IBM. Exceptions are clearly indicated in the IBM Hotel Gulde. Hotels may require identification from anyone requesting an IBM-negotiated rate and have agreed to since it includes the remark "This traveler is elligible for IBM rates and is expense-reimbursed by IBM."

For auto rentals under our Hertz agreement, the sponsoring IBM employee must contact Hertz directly at 203-348-9767 to obtain a letter of authorization for the third party. These requests should be made at least one (1) week in advance.

EXPENSE ACCOUNT DETAIL

Expense accounts are to be submitted to you by your employees immediately upon return from a business trip. Actual daily expenses must be reported to you under the applicable expense category. All reimbursable expenses for a given period are to be included on one expense account,

When reporting expenses, the following information is required:

- A. dates of departure and return for each trip:
- B. travel departure point and destination;
- C. name of the IBM employee who authorized the trip;
- D. business reason for the travel:
- E. people met and business conducted;
- F. a statement that no reimbursement is due whenever expenses are not claimed for any workday your employee is on travel status; and
- G. explanation of out-of-the-ordinary amounts claimed; e.g., name(s) of individual(s) attending a luncheon if they have not paid for their own portion and claimed it individually.

RECEIPTS

An itemized receipt (copy acceptable with original retained by you) must substantiate lodging costs, airline travel, rental car and all other expenditures of twenty-five dollars (\$25,00) or more. The receipts must show the amount, date, place and nature of the expense. The receipts must be attached to, and submitted with, the expense account. Reimbursement for airline travel requires a copy of the actual airline passenger coupon receipt. Reimbursement for car rental requires a copy of the actual car rental agreement.



TRANSPORTATION

Only the most economical airline accommodations, e.g., economy, coach, tourist, excursion, discount and shuttle flights are to be used. Other airline accommodations, e.g., first and business class air fare WILL NOT be reimbursed unless specifically approved by IBM in advance. Travel should be planned to take advantage of any possible discount fares. Air travel will be reimbursed only for that portion thereof which is directly related to the services being performed under this Agreement.

Raii or bus travel will be reimbursed for regular coach class. Such travel is not to exceed one day. Any additional days actually used in making the trip will be considered non-reimbursable, personal business. Ground transportation will be reimbursed for taxi, bus or car rental. Actual tolls and parking fees incurred will be reimbursed.

Use of personal automobiles to fulfill approved travel obligations under this Agreement (not applicable to normal commutation) shall be reimbursed at the rate of twenty-seven-and-a-half (\$.275) cents per mile. for the most direct, practical route to the business destination. Your employees have the responsibility to maintain a "Weekly Mileage Log" which will be submitted as an attachment to your invoice. If more than one person travels in the same automobile, only your employee responsible for the automobile will be reimbursed.

IBM will not reimburse you for normal commutation expenses.

LODGING AND MEALS

IBM will reimburse reasonable and actual lodging and meal expenses incurred while traveling on approved business. Commercial type accommodations and rates are to be requested at all times.

When guaranteed reservations have been made and plans change, the reservation should be canceled in time to avoid being charged for the room. Room expense, including tax, is to be entered on the expense account by day, and the hotel bill is to be attached to the expense account. Charges on the hotel bill for other than lodging are to be entered by day under their proper classifications.

IBM will relmburse reasonable and actual meal expense. When possible each individual is to pay for his/her own meal. Should an occasion arise where one person pays for more than his/her own meal, the name(s) of the person(s) are to be written on the expense account and the explanation noted as to the business reason for the expense. Alcoholic beverage expenses are not reimbursable.

PERSONAL EXPENSES

IBM will not reimburse personal expenses. If expenses of a personal nature, including hotel shop purchases, laundry, valet, non-business telephone calls, movie charges, health club use, alcoholic beverages, sundry items, are charged against the room, the amount so charged is to be deducted from the invoice presented to IBM.

Business telephone calls made in IBM's behalf by your employees while traveling on approved IBM business will be relimbursed. If your employees are at an IBM location, business calls should be made at that location, utilizing IBM tie-lines and WATS lines, when possible. When your employees charge business calls to their home telephone numbers or personal telephone credit cards, the detailed telephone company bill is to be attached to the expense account if the aggregate total is twenty-five dollars (\$25.00) or more.

IBM will reimburse reasonable and actual gratuities disbursed for business purposes by you employees while traveling on approved IBM business.



Statement of Work No. 12780-001

STATEMENT OF WORK No. 12780-001

Analysis of S/390 Platform for Internet/Intranet Applications May 5, 1997

1.0 PURPOSE

This Statement of Work (SOW) describes the services and Deliverable Items which Input shall furnish to the System;390 Division (S/390D) of IBM. Pursuant to this SOW Input is to undertake a market research engagement to assess the market feedback on the implementation of S/390 Platforms for Internet/Intranet applications. Input will conduct telephone interviews with customers to help IBM understand S/390 customers' progress toward implementing Internet/Intranet applications, the key drivers behind infrastructure choices, and the inhibitors, critical success factors, and differentiators in the implementation of S/390 platforms supporting Internet technology. These interpiews shall provide IBM with a better understanding of how they should market S/390.

Input agrees that an objective of the services and Deliverable Items is to provide IBM with the following benefits:

- Gain improved understanding of S/390 customer usage of Internet technology
- Understand S/390 customer plans for platforms to support Internet technology
- Ensure an effective investment strategy for S/390 related to Internet and Intranet applications
- Evaluate customer satisfaction with current Internet application platforms
- Establish a profile of prospects for \$/390 Internet platforms

2.0 CONTRACT COORDINATOR AND TECHNICAL COORDINATOR

IBM Contract Administrator:

Russell D. Munson (914) 433-7643

Technical Coordinator:

Ron Dombroski (914) 433-3091

Contractor Contract/Technical Coordinator:



Statement of Work No. 12780-001

Wilson Haddow, Vice President Input (415) 528 - 6311 (415) 961 - 3966 (FAX)

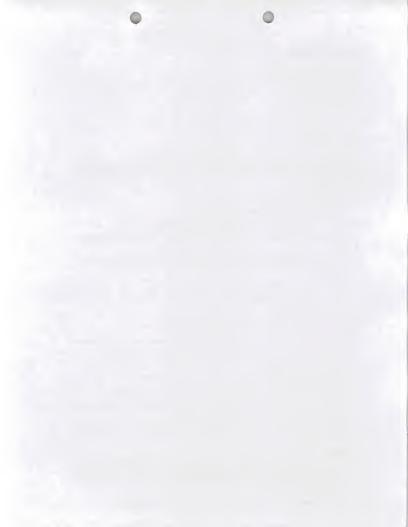
3.0 SCOPE

Under this SOW, Input will conduct 50 to 100 comprehensive telephone interviews with IS executives identified from lists supplied by IBM. These customers will be interviewed regarding their experience and plans for migration to Internet technology. Input will perform the following services as part of this project:

- 1. Create a draft survey questionnaire
- 2. Meet with IBM to review the questionnaire.
- 3. Receive a briefing from IBM on the S/390 product family and market.
- 4. Train interviewers on those aspects of the S/390 market relevant to the Internet/Intranet mar-
- Conduct and audiotape telephone interview survey using names and contact information supplied by IBM.
- 6. Tabulate and analyze the data.
- 7. Prepare draft results and present to IBM.
- 8. Prepare final report and deliver to IBM.

Input will use its best efforts to ensure that the services and Deliverable Items address:

- What business processes, function and applications are being migrated to Internet technology?
- What are the business objectives driving these changes? How satisfied are users that these
 objectives are being achieved?
- · Who is initiating the changes and who is responsible for the implementation?
- · What is the IT architecture being implemented to support these new applications?
- What are the hardware, software, and services selection criteria being used for the Internet and Intranet projects? Who is involved in the selection process?
- What hardware and software platforms were considered and selected? What were the factors for and against the S/390?
- What customer needs remain unmet?
- What is the potential for a packaged solution including S/390 hardware, software and services?
 What must be included in such a package in order for it to be considered as a platform for Internet and/or Intranet applications?
 What additional features and functions would users like to be offered in such a package?
- . What are users' plans for the future of the Internet/Intranet IT infrastructure?



Statement of Work No. 12780-001

4.0 PERSONNEL SKILLS/RESOURCES

Input shall assign personnel to perform the services in this SOW who are experienced interviewers specially trained in the IT environment. The project will be led by Wilson Haddow and the interview process managed by Joanne Ponnwitz.

5.0 COMPENSATION

For services performed in accordance with this Agreement, IBM shall compensate Input as described below:

The total payment by IBM to Input for the services and Deliverable Items provided shall not exceed \$50,600. This fee includes: \$46,000 for services and all Deliverables associated with the telephone interviews Input will conduct; and up to \$4,600 for travel and administrative fees, such as report production. This payment covers all of Input's time spent on this SOW whether at IBM or elsewhere. Such payment shall include payment for all of Input's reasonable and necessary business travel expenses. BM shall pay no additional fees.

Input shall invoice IBM for \$23,000.00 upon execution of the Agreement. Input shall invoice IBM \$23,000 plus travel and administrative fees, not to exceed \$4,600 upon completion and acceptance of the Deliverables and notification of IBM's determination that the all services to be provided under this SOW are complete.

6.0 SCHEDULE

Input shall commence work on this SOW on or about May 15, 1997 and will continue until approximately July 15, 1997 or until such time as IBM has notified input that all deliverables have been accepted.

Specific dates by which Input will have completed and delivered the Deliverables to IBM shall be in accordance with Section 9.0 'Deliverables.'

7.0 IBM RESPONSIBILITIES

IBM shall provide the following to Input:

- A list of S/390 customers including company name/state/city and contact name including phone number
- The S/390 product overview presentation;
- 3. Such other assistance as IBM deems reasonably necessary.

8.0 VENDOR RESPONSIBILITIES

Input shall furnish IBM the services and Deliverables more fully described in Section 3.0, "Scope" and Section 9.0 "Deliverables" in accordance with the terms and conditions of the Agreement and this SOW.

Input shall use its best efforts to keep the IBM coordinator informed of the status of the services being performed under this SOW on a regular basis. Input may so either by telephone or by written notification.



Statement of Work No. 12780-001

Input shall use its best efforts to coordinate the furnishing of services to IBM with the appropriate S/390 representative to allow for IBM's input to be incorporated into all Deliverables.

9.0 DELIVERABLES/SCHEDULE

Input shall provide IBM with the following Deliverables on or about the dates specified:

```
Project Start on or about May 15, 1997 For to 100 Interviews, on or about June 15, 1997 recorded on audiotage where possible Survey Data Crosstabs on or about June 30, 1997 Preliainary report on or about July 8, 1997 on or about July 8, 1997 on or about July 15, 1997
```

10.0 ACCEPTANCE CRITERIA

All Deliverables Items furnished under this SOW shall be subject to IBM's final review and acceptance. The terms of Section 3.0 of the Agreement shall apply to IBM's acceptance.

11.0 OTHER REQUIREMENTS/SPECIAL TERMS

The services performed and Deliverable Items delivered under the Agreement shall be used solely for the purposes intended by this SOW and may not be used by Input for any other purpose including other IBM functions, without the prior written approval of the IBM Coordinator. See also Section 4.0 Confidential Information.

END OF STATEMENT OF WORK

12.0 APPROVAL SIGNATURES

Accepted and Agreed to:

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NTERN	NATIONAL BUSINESS MACHIN	ES CORPORATION
Y:		
tuss Mu	enson, Contract Administrator	
Date:		
nput		
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	15/01	



IBM

Agreement No.:12781

Procurement Agreement for Exchange of Confidential Information

This Agreement will provide protection for information to be exchanged between us which we do not wish to become public ("Information") while maintaining our ability to conduct our respective business activities. Under this Agreement, IBM may disclose business information (business plans and financial, statistical and personal data) and technical information. You may disclose business information, and if we have entered into Supplier Technical Information Supplement, technical Information. Each of us agrees that the following terms shall apply when one of us ("Discloser") discloses information to the other ("Recipient") under this Agreement.

Disclosure

The Discloser and the Recipient will coordinate and control the disclosure. Information may be disclosed, in writing, ii) by delivery items; iii) by authorized access to Information, such as may be contained in a data base; or iv) by oral and/or visual presentation. All materials containing Information must have a restrictive marking of the Discloser at the time of disclosure. Information disclosure or all your summarized in a writing provided to the Recipient within thirty (30) days of disclosure.

All disclosures of information other than those made pursuant to this Agreement shall be deemed to be non-confidential. The Discloser shall not disclose any information which Discloser does not have the right to disclose to the Recipient.

2. Protection

For two (2) years after the date of the disclosure, the Recipient will: I) use the same care and discretion to avoid disclosure of the Discloser's Information as the Recipient uses with its own similar information which it does not wish to discloser; and II) use the Discloser's Information only to further IBM's procurement and development activities.

3. Exceptions

The Recipient may disclose Information to: i) its employees and employees of its parent and majority owned subsidiary companies who have a need to know, and ii) any other party with the Discloser's prior written consent.

Before disclosure to any of the above parties, the Recipient must have an appropriate written or oral agreement with such party sufficient to require that party to treat Information in accordance with this Agreement.

The Recipient may disclose Information to the extent required by law, but the Recipient must give the Discloser advance notice to allow the Discloser a reasonable opportunity to obtain a protective order.

The Recipient may disclose and use the ideas, concepts, know-how and techniques related to Recipient's business activities which are contained in the Discloser's Information and retained in the memories of the Recipient's employees who have had access to the Information pursuant to this Agreement.

her ("Recipient") under this Agreement. No obligation under this Agreement shall apply to Information that is: i) already in Recipient's possession or received by Recipient without a non-disclosure obligation; ii) developed independently by Recipient; iii) publicly available when received, or thereafter becomes publicly available through no fault of the Recipient; or iv) disclosed by Discloser to a third party without a non-disclosure obligation.

4. Disclaimers

THE DISCLOSER PROVIDES INFORMATION SOLELY ON 'AS IS' BASIS.

Neither this Agreement nor any disclosure of Information hereunder grants the Recipient any right or license under any trademark, copyright or patent now or hereafter owned or controlled by the Discloser.

5. General

This Agreement does not require either party to disclose or receive Information.

Neither of us may assign or otherwise transfer our rights or delegate our duties or obligations under this Agreement without the prior written consent of the other. Any attempt to do so is vold.

The receipt of Information pursuant to this Agreement will not prevent or in any way limit the Recipient from ji developing, manufacturing and marketing products or services which may be competitive with products or services of the Discloser; ii) providing products or services to others who compete with the Discloser, or iii) assigning and re-assigning its employees in any way it may choose.

The Recipient must comply with all applicable United States and foreign export laws and regulations.

Only a written agreement signed by both of us can modify this Agreement.

Either of us may terminate this Agreement by providing one month's written notice to the other. Any provisions of this Agreement which by their nature extend beyond its termination remain in effect until fulfilled and apply to our respective successors and authorized assignees.

The laws of the State of New York govern this Agreement.



This Agreement, including its Supplements (if any), is the complete and exclusive agreement our disclusions of Information.

Agreed to: Agreed to International Business Machines Corporation INPLIT To- its hell. J. M. WILLOW HAD DOW 5/8/97



Ron Dombroski, 10:35 AM 1/6/98 -, Project Status

>From roncd@us.ibm.com Tue Jan 06 10:38:28 1998 From: Ron Dombroski <roncd@us.ibm.com> To: <wh&input.com> Subject: Project Status Date: Tue. 6 Jan 1998 10:35:47 -0500

Wilson, please provide me with project status and anticipated dates for deliverables. Thanks.

Ron Dombroski Consulting Market Specialist IBM Server Brand Management 522 South Rd MS P124 Poughkeepsie, NY 12601-5400

(914) 433-3091 phon (914) 432-9418 fax

roncd@us.ibm.com

------ Forwarded by Ron Dombroski/Poughkeepsie/IBM on 01/06/98

Ron Dombroski 12/09/97 09:28 AM

To: wh@input.com@internet cc: From: Ron Dombroski/Poughkeepsie/IBM @ IBMUS Subject:

Wilson, at this time, I do not have a format in mind for coordinating the reports from each of the three audiences (and vendors). But it is likely to be a good idea. I welcome your suggestions for templates on data presentation. Sometimes the first input becomes the standard, so feel free. We do need to synchronize the timing, with early January as the deadline for reports. Thanks.

Ron Dombroski Consulting Market Specialist IBM Server Brand Management 522 South Rd MS P124 Poughkeepsie, NY 12601-5400

(914) 433-3091 phone (914) 432-9418 fax

roncd@us.ibm.com

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EXECUTIVE SUMMARY

Analysis of S/390 Platform for Internet/Intranet Applications



Executive Summary

This study (Analysis of S/390 Platform for Internet/Intranet Applications) examined S/390 customers' progress towards implementing Internet and Intranet applications. Other areas addressed by the study include key drivers behind the hardware and software infrastructure choices for Internet and Intranet applications, and the capabilities of the S/390 platform to support these Internet applications.

This summary provides a top-level analysis of the findings of the study and key conclusions.

Α

Current and Planned Use of Internet/Intranet Applications

Most users have started to use Internet technology. However, this is still at an early stage (i.e. used predominately for communication).

Few companies are making, or planning to make, payments via the Internet.

Exhibit 1 shows the percentage of companies using Internet/Intranet applications of differing types. Respondents were asked to identify all the business areas in which Internet/Intranet applications are or will be used.

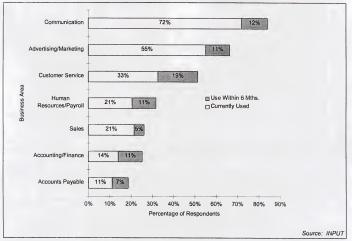
Most companies are still relative novices in their use of Internet technology. This is illustrated by the low percentage (under 25%) of customers using the Internet for more "sophisticated" applications such as Sales and Accounting.

For most organizations, the evolution of application types is:

- Access email communication
- 2. Presence advertising via creation of a home page
- Operation use of internally focused applications (e.g. Human Resources) and/or "passive" (non-transaction oriented) applications such as on-line availability of manuals
- Transaction use of applications requiring a 2-way flow of transactions across an Internet/Intranet (e.g. order systems)
- 5. Payments electronic payments issued across the Internet

Exhibit 1

Current/Planned Use of the Internet/Intranet



107 Respondents

The greatest opportunity to increase the use of Internet/Intranet applications is in the application areas where there is low current activity — Accounts Payable, Accounting/Finance, Sales and Human Resources. These are the areas where plans are just being made for system development.

Very few customers indicated any plans for using Internet technology within application areas specific to their industries.

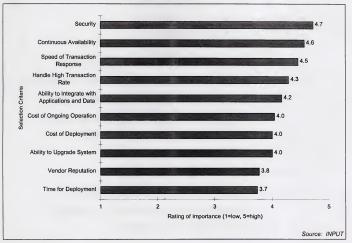
В

Internet/Intranet Platform Selection Criteria

Respondents were asked to rate the importance of hardware and software selection criteria used to select Internet/Intranet applications. These criteria drive the choice of the hardware and software platform. Mean responses for all respondents are presented in Exhibit 2.

Exhibit 2





Margin of error: 0.1

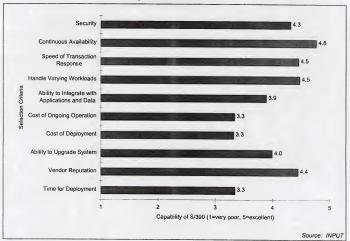
It is unusual to obtain an average rating of over 4.5 or higher, on a scale of 1-5, in a survey.

The high ratings for security, availability and transaction response rate criteria indicate that these are extremely important points.

The capabilities of the S/390 were rated by respondents as to its suitability as an Internet/Intranet platform. Exhibit 3 shows the mean ratings of respondents of the capabilities of the S/390 as an Internet/Intranet platform.

Exhibit 3

Capabilities of the S/390



Margin of error: 0.1

Although there are some differences between the ratings of importance for the various criteria and the ratings of \$3/390 capabilities, most respondents indicate there is a good overall match. This match is especially true for the criteria rated most highly in importance.

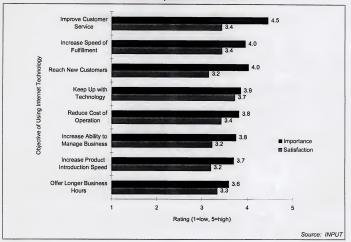
С

Drivers and Inhibitors of Internet/Technology Usage

Exhibit 4 presents the objectives driving the implementation of Internet technology and the satisfaction in attainment at this point as reported by all respondents.

Exhibit 4

Internet Drivers - Importance and Satisfaction



Margin of error: 0.1

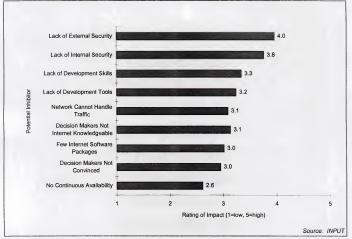
The relatively low ratings of satisfaction with achievement of objectives compared with importance of the Internet drivers is consistent with other studies that INPUT has conducted in the Internet market.

The primary cause of the shortfall is the short lifespan, and relative immaturity, of applications in this part of the market.

Exhibit 5 gives the rating of potential inhibitors to the planning and implementation of Internet technology.

Exhibit 5

Potential Inhibitors to Internet Technology Implementation



Margin of error: 0.1

Security remains the major concern with regard to the Internet environment—this an area where the S/390 was highly rated.

D

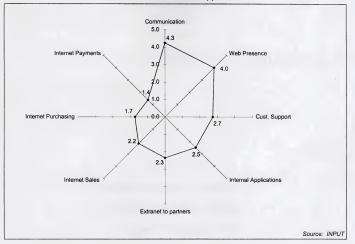
Status of Internet Application Deployment

One of the objectives of the study was to examine progress towards implementing Internet and Intranet technology.

Respondents were asked to describe progress toward live implementation of a list of 8 Internet/Intranet applications. Exhibit 6 presents the current status of the applications and the stage of development at this time.

Exhibit 6

Status of Internet/Intranet Applications



This chart shows the users relative maturity in each of the application areas.

The "maturity" values were assigned to the various stages of usage based on the following scale:

- No Current Activity —1
- Considering Internet Use 2
- Developing Software 3
- Pilot Implemented —4
- Full Implementation 5

Communications is the area in which users have most experience (average value 4.3) and use of payments was the lowest with a value of 1.4. The low

value of maturity for payments reflects the very low use of Internet technology for inter-company payments.

The strong security features of the S/390 plus ability to integrate with multiple applications, as shown in Exhibit 3, make the S/390 a good platform for Internet payment applications.

Е

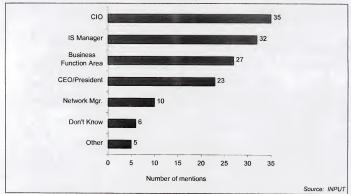
Internet/Intranet Champions and Decision Makers

In the decision to move to Internet technology, one of the most important people within the company is the Internet champion. This is the person who will push projects along and keep the company moving forward in the use of the Internet.

In roughly one-third of the companies interviewed, it is the CIO that is pushing the company towards Internet technology, Exhibit 7.

Exhibit 7

Internet Champion



The IS department, the CIO and the IS Manager, are also the main positions involved in the planning and implementation of Internet strategy and the

selection of hardware and software products to be used. In about 50% of the respondent companies, the IS department was the main decision maker.

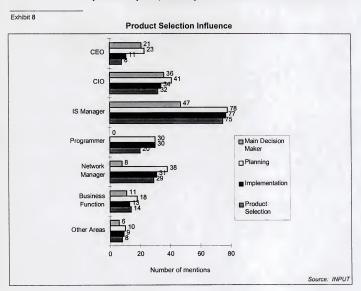


Exhibit 8 is believed to be biased in favor of IS Manager involvement since IS was the main department interviewed for this study.

F

Conclusions

Conclusions

- Most customers have started to use Internet technology, but this is still at an early stage. Most current use is for communications and advertising.
- Few companies are now making, or planning to make, payments via the Internet.
- Lack of security and lack of the development skills and tools are key inhibitors to the implementation of Internet technology.
- Security, continuous availability, and speed and rate of transaction response are key criteria for Internet platform selection. S/390 was rated very highly on these criteria.
- The Internet/Intranet environment should be considered as a multiplatform and not a single-platform environment.



About INPUT



 Clients make informed decisions more quickly and economically by using INPUT's services. Formed in 1974, INPUT is an independent, international market research and consulting firm dedicated to the information systems, software and services industries.

SUBSCRIPTION SERVICES (U.S. AND EUROPE)

Clients receive research on electronic business across the following areas:

- Electronic Processes -- How users conduct business
- Enabling Technologies -- What technologies are used to conduct business
- Infrastructure Support -- Which activities support the business
- · Market Forecasts
- Vendor Profiles

SERVICE FEATURES

- Research based reports on trends, etc. (More than 100 in-depth reports per year.)
- Frequent bulletins on events, issues, etc.
- 5-year market forecast
- · Competitive analysis
- · Access to experienced consultants
- · Immediate answers to questions
- On-site presentations
- · Electronic report delivery

DATABASES

- Software and Services Software and Services Vendors
- Market Forecasts
- U.S. Federal Government
 - Procurement plans (PAR, APR)
 - Market Forecasts
 - Awards (FAIT)

CUSTOM RESEARCH

INPUT provides objective and proprietary analysis of clients' problems and opportunities. Typical projects include:

- Market/Product Strategy Research
- Marketing (e.g., Pricing Strategies)
 - Customer Satisfaction Analysis
 - Competitive Analysis
 - Information Systems Strategy

PARTNERING/ACQUISITION SERVICES

Through its over 20 years of experience, data base and contacts, INPUT offers clients effective support in partnering including acquisition searches, particularly in the international arena.

Frankfurt • London • New York • Paris • Moutain View • Tokyo • Washington D.C.



EXECUTIVE SUMMARY

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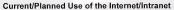
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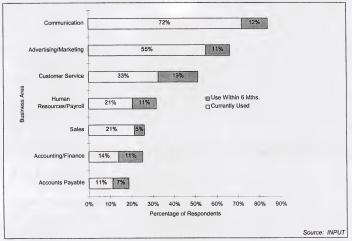
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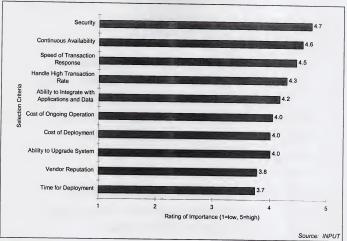
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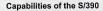
Margin of error: 0.1

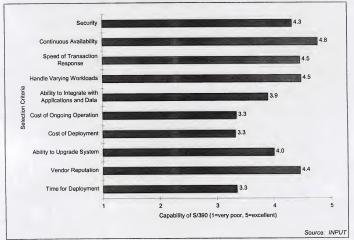
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Exhibit 3





Margin of error: 0.1

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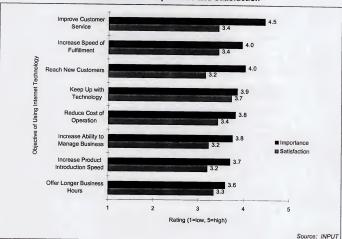
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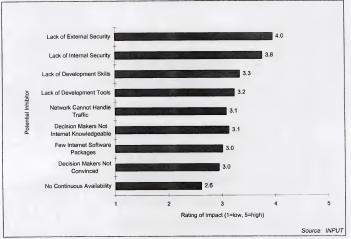
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n

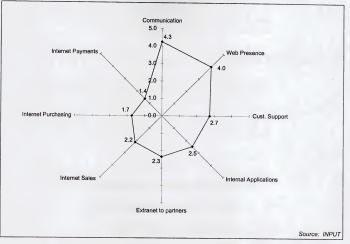
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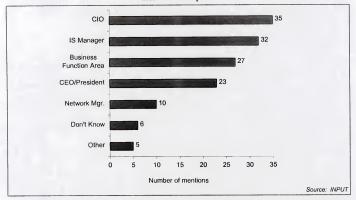
Internet/Intranet Champions and Decision Makers

In the decision to move to Internet technology, one of the most important people within the company is the Internet champion. This is the person who will push projects along and keep the company moving forward in the use of the Internet.

In roughly one-third of the companies interviewed, it is the CIO that is pushing the company towards Internet technology, Exhibit 7.

Exhibit 7

Internet Champion



The IS department, the CIO and the IS Manager, are also the main positions involved in the planning and implementation of Internet strategy and the

selection of hardware and software products to be used. In about 50% of the respondent companies, the IS department was the main decision maker.

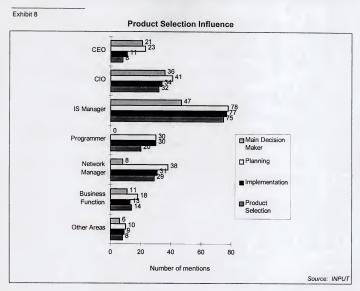


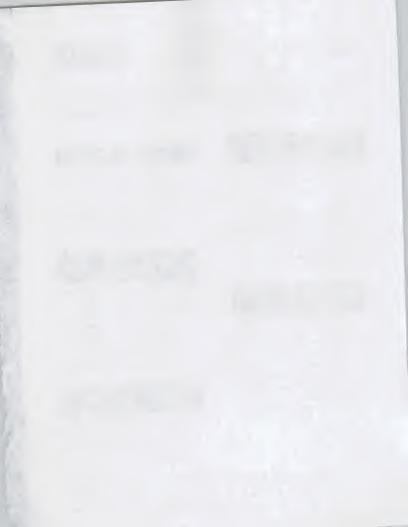
Exhibit 8 is believed to be biased in favor of IS Manager involvement since IS was the main department interviewed for this study.

F

Conclusions

Conclusions

- Most customers have started to use Internet technology, but this is still at an early stage. Most current use is for communications and advertising.
- Few companies are now making, or planning to make, payments via the Internet.
- Lack of security and lack of the development skills and tools are key inhibitors to the implementation of Internet technology.
- Security, continuous availability, and speed and rate of transaction response are key criteria for Internet platform selection. S/390 was rated very highly on these criteria.
- The Internet/Intranet environment should be considered as a multiplatform and not a single-platform environment.



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- Infrastructure Support -- Which activities support the business
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- · Vendor Profiles

SERVICE FEATURES

- Research based reports on trends, etc.
 (More than 100 in-depth reports per year.)
- Frequent bulletins on events, issues, etc.
- · 5-year market forecast
- · Competitive analysis
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EXECUTIVE SUMMARY

Analysis of S/390 Platform for Internet/Intranet Applications



Executive Summary

This study (Analysis of S/390 Platform for Internet/Intranet Applications) examined S/390 Customers' progress towards implementing Internet and Intranet applications. Other areas addressed by the study include key drivers behind the hardware and software infrastructure choices for Internet and Intranet applications, and the capabilities of the S/390 platform to support these Internet applications.

This summary provides a top-level analysis of the findings of the study and key conclusions.

Α

Current and Planned Use of Internet/Intranet Applications

Most users have started to use Internet technology. However, this is still at an early stage (i.e. used predominately for communication).

Few companies are making, or planning to make, payments via the Internet.

Exhibit 1 shows the percentage of companies using Internet/Intranet applications of differing types. Respondents were asked to identify all the business areas in which Internet/Intranet applications are or will be used.

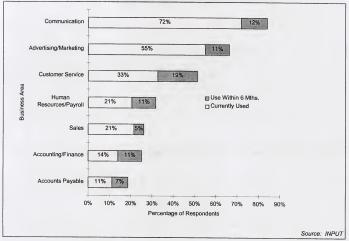
Most companies are still relative novices in their use of Internet technology. This is illustrated by the low percentage (under 25%) of customers using the Internet for more "sophisticated" applications such as Sales and Accounting.

For most organizations, the evolution of application types is:

- 1. Access email communication
- 2. Presence advertising via creation of a home page
- Operation use of internally focused applications (e.g. Human Resources) and/or "passive" (non-transaction oriented) applications such as on-line availability of manuals
- Transaction use of applications requiring a 2-way flow of transactions across an Internet/Intranet (e.g. order systems)
- 5. Payments electronic payments issued across the Internet

Exhibit 1

Current/Planned Use of the Internet/Intranet



107 Respondents

The greatest opportunity to increase the use of Internet/Intranet applications is in the application areas where there is low current activity — Accounts Payable, Accounting/Finance, Sales and Human Resources. These are the areas where plans are just being made for system development.

Very few customers indicated any plans for using Internet technology within application areas specific to their industries.

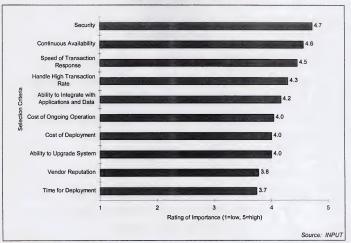
В

Internet/Intranet Platform Selection Criteria

Respondents were asked to rate the importance of hardware and software selection criteria used to select Internet/Intranet applications. These criteria drive the choice of the hardware and software platform. Mean responses for all respondents are presented in Exhibit 2.

Exhibit 2





Margin of error: 0.1

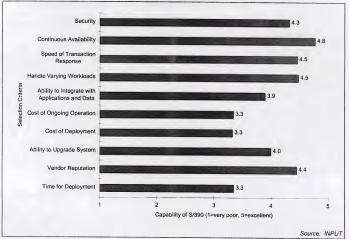
It is unusual to obtain an average rating of over 4.5 or higher, on a scale of 1-5, in a survey.

The high ratings for security, availability and transaction response rate criteria indicate that these are extremely important points.

The capabilities of the S/390 were rated by respondents as to its suitability as an Internet/Intranet platform. Exhibit 3 shows the mean ratings of respondents of the capabilities of the S/390 as an Internet/Intranet platform.

Exhibit 3

Capabilities of the S/390



Margin of error: 0.1

Although there are some differences between the ratings of importance for the various criteria and the ratings of S/390 capabilities, most respondents indicate there is a good overall match. This match is especially true for the criteria rated most highly in importance.

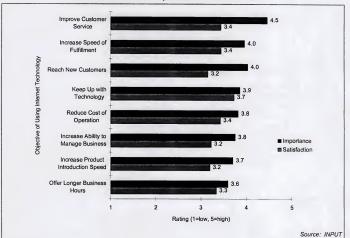
С

Drivers and Inhibitors of Internet/Technology Usage

Exhibit 4 presents the objectives driving the implementation of Internet technology and the satisfaction in attainment at this point as reported by all respondents.

Exhibit 4

Internet Drivers - Importance and Satisfaction



Margin of error: 0.1

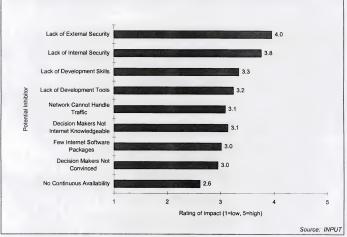
The relatively low ratings of satisfaction with achievement of objectives compared with importance of the Internet drivers is consistent with other studies that INPUT has conducted in the Internet market.

The primary cause of the shortfall is the short lifespan, and relative immaturity, of applications in this part of the market.

Exhibit 5 gives the rating of potential inhibitors to the planning and implementation of Internet technology.

Exhibit 5

Potential Inhibitors to Internet Technology Implementation



Margin of error: 0.1

Security remains the major concern with regard to the Internet environment—this an area where the S/390 was highly rated.

D

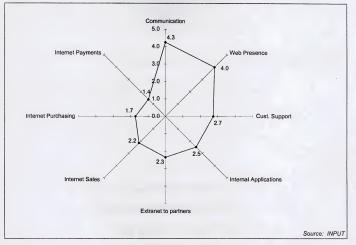
Status of Internet Application Deployment

One of the objectives of the study was to examine progress towards implementing Internet and Intranet technology.

Respondents were asked to describe progress toward live implementation of a list of 8 Internet/Intranet applications. Exhibit 6 presents the current status of the applications and the stage of development at this time.

Exhibit 6

Status of Internet/Intranet Applications



This chart shows the users relative maturity in each of the application areas.

The "maturity" values were assigned to the various stages of usage based on the following scale:

- No Current Activity 1
- Considering Internet Use 2
- Developing Software 3
- Pilot Implemented —4
- Full Implementation 5

Communications is the area in which users have most experience (average value 4.3) and use of payments was the lowest with a value of 1.4. The low

value of maturity for payments reflects the very low use of Internet technology for inter-company payments.

The strong security features of the S/390 plus ability to integrate with multiple applications, as shown in Exhibit 3, make the S/390 a good platform for Internet payment applications.

Ε

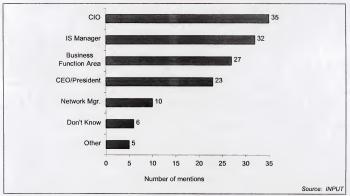
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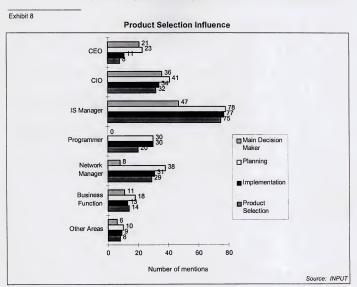


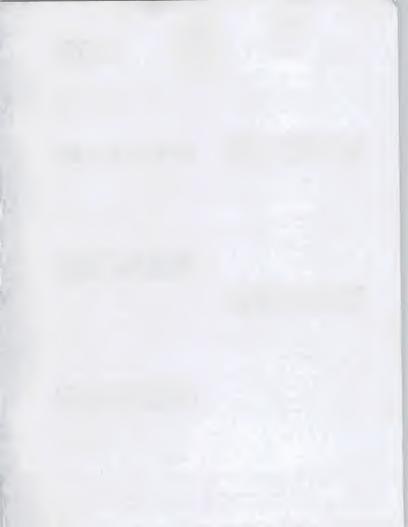
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P.01

Fax Cover Sheet

TO: WILSON HADDOW
fax #: 415-961-3966
From: Ronald C. Dombroski
Consulting Market Specialist
IBM System 390 Division
522 South Road (P124)
Poughkeepsie, NY 12601-5400
Phone: (914) 433-3091
Fax: (914) 432-9418
Email: external: RONCD@vnet.IBM.com internal: PKEDVM9/RONCD
Subject:
No. of Pages: 22
(including cover sheet)
Notes:
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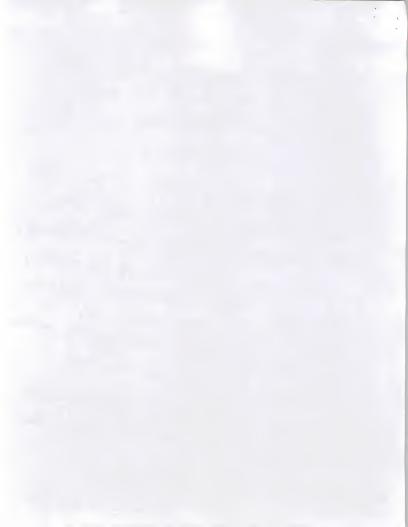
WILSON,

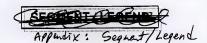
This report is getting to be very good. I have marked up pages as promised. Please call with any questions to discuss.

One open-end is that in our LCIP tracking survey we found just 60% of customes implementing/planning Internet would use 5/390 as primary platform for this. Per exhibit 11-2, we are finding 49% in this study. Why is this so much higher? We need to address the this in the executive Surmany. I need this report complete and in my hands by end of next week.

CC: JOANNE PONNUITZ

Thanks how





SEGMENT

CONTENT

TECHNOLOGY ADVANTAGE ---LARGE

HLU>=125 MIPS (msu>=23)

- 9672R3, R4, Rx - Skyline, Pilot, Millenium H5. GX8xx4. 5990-xx70 with

- Links/9674s or - R3, R4, Rx

- Skyline, Pilot, Millenium

BUSINESS CONSTRAINED

H5, GX8xx4, 5995-xx70 without

Links/9674s or

- R3. R4. Rx or

- 9672R1, R2

· Pilot, Millenium

- 9672R3, R4, Rx

- Skyline, Pilot, Millenium 9673, 9672E/P HLU>=125 MIPS - 9672R3, R4 but - Used & without links

HLU<=124 MIPS (msu<=22)

TECHNOLOGY ADVANTAGE ---

MIDSIZE

- 2003 .H2, 9121, 9221) new

STABLE GROWTH

PRICE DRIVEN H2, 9121, 9221) used GX8xx2, GX6xxx, 5995-xx50

MATURE ¥

H0, 3090, GX8xx0, EX, 5990/5 9370, 43xx, 308X, 5890, 580 470V, XL, VL, AS

DESCRIPTORS

Parallel eysplex capable Mostly multiple systems Newest biggest systems Current sortware & techno. Large Staff I/T critical to business Value high availability

Prior "leading edge" Often multiple systems Current software Value function but justification difficult increased cost focus View I/T as an asset

Primarily single system Highest Q2/390 content Limited staff Like solution offerings eading edge image

Acquired NEW Moderate growth Fairly current software, but prigration a concern che senstive

IBM acquired USED Very cost conscious Little value on new function Fairly current software, but migration a concern

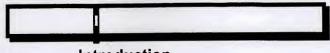
Old technology Back level software single system, small staff Low operating costs No value on new funct/techno

were nor

W7SEG ERW 5/4/97

36





Introduction

Purpose and Scope

IBM conducts on a periodic basis, a study of the issues surrounding the use of S/390 computers. This information is valuable for the strategic planning of the IBM S/390 line.

This study seeks to examine S/390 customers' progress towards implementing Internet and Intranet applications and was done in cooperation with Ron Dembroski, IBM S/390 Division. Other objectives addressed by the study include key/drivers behind the hardware and software infrastructure choices for Internet and Intranet applications and inhibitors/critical success factors in the implementation of \$4390 platforms supporting Internet technology.

This is a follow-on to the more general Large Customer IT Panel, Wave 7 study conducted in Spring 1997. Interviews were completed for this latest study based on a list supplied by IBM of sites and contacts who had responded to the Wave 7 study.

in the U.S

Please label each page as 18m Confidential



Demographics

Customers from a mixture of industries were interviewed are shown in Exhibit I-1.

Exhibit I-1

Industries interviewed

	1 - 40 - 1 - 1 1 Wi		
Manufacturing	16		
Banking/Finance	6		
Education	23		
Insurance	15		
Distribution	5		
Government	19		
Services	10		
Communications	1		
Health	8		
Other	4		
Total Interviews	107		

The interviews were segmented according to the defigition of the installation and the respondent company's likelihood to implement Internet/Intranet technology.

- Segments 4A, 5, 5A are newer large scale systems / See Append
- Segments 2, 3, 4 are older more mature sites.
- Users referred to as Internet Type 1 consisted of companies that are currently implementing an Intranet or internal network that uses Internet technology.
- . Users referred to as Internet Type 2 consisted of companies that plan to implement an Intranet within the next six months or sometime after the next six months.

A qualifying question for the research inquired as to the use or planned use of the Internet for business applications. Companies with no current or planned Internet usage were excluded from the study.

The largest number of interviews were to be done with the group consisting of segments 4A, 5, 5A.



The following charts shows the breakdown of the interviews by segment and Internet type. Exhibits in the following chapters will refer to this table when the data is broken into groups.

Exhibit I-2

Segment and Internet Type of Interviews Conducted

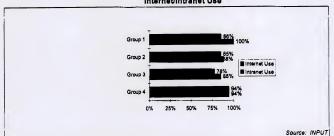
Use for Roll-3.

			31 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Group 1	4, 4A, 5	Implemented	28
Group 2	4, 4A, 5	Planing	34
Group 3	2, 3, 4	Implentanted	27
Group 4	2, 3, 4	Planne	18
		/	Source: INIBIL

Exhibit I-3 presents the percent breakdown of users that reported being involved to planning involvement with the Internet or an Intranet application in the next six months.

Exhibit I-3

Internet/Intranet Use





Organization of Report

The remainder of the report is organized in the following manner:

- Chapter 2 Executive Summary discusses the overall environment and evaluation of selection criteria plus conclusions and recommendations.
- Chapter 3 Presents current and planned use of Internet technology.
- Chapter 4 Details the Internet/Intranet platform selection criteria.
- Chapter 5 Provides a comparison of S/390 capability and Internet/Intranet platform selection criteria.
- Chapter 6 Presents drivers and inhibitors to Internet/Intranet usage.
- Chapter 7 Details the status of Internet application maturity.
- Chapter 8 Presents an evaluation of components of S/390 Internet packaging.





Executive Summary

This chapter provides a top-level analysis of the findings of the study and key conclusions and recommendations

The following chapters contain backup material to this summary. There is a chapter relating to each section of the summary.

Current and Planned Use of Internet/Intranet Applications

Most users have started to use Internet technology. However, this is still at an early stage (i.e. used predominately for communication).

Few companies are making, or planning to make, payments via the Internet.

Exhibit II-1 shows the percentage of companies using Internet/Intranet applications of differing types. Respondents were asked to identify all the business areas in which Internet/Intranet applications are or will be used.

Most companies are still relative novices in their use of Internet technology. This is illustrated by the rapid decline in the total percentage of users using or planning to use Internet/Intranet applications in the various business areas.

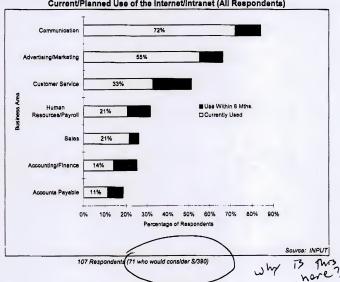
For most organizations, the evolution of application types is:

- Access email communication
- 2. Presence advertising via creation of a home page
- 3. Operation use of internally focused applications (e.g. Human Resources) and/or "passive" (non-transaction oriented) applications such as on-line availability of manuals



- 4. Transaction use of applications requiring a 2-way flow of transactions across an Internet/Intranet (e.g. order systems)
- 5. Payments electronic payments issued across the Internet

Exhibit II-1 Current/Planned Use of the Internet/Intranet (All Respondents)



Within the S/390 customer base the greatest opportunity to increase the use of the S/390 as an Internet/Intranet application platform is in the application areas where there is low current activity - Accounts Payable, Accounting/Finance, Sales and Human Resources. These are the areas where there is time to develop a plan and to take it to the market.

Very few customers indicated any plans for using Internet technology within application areas specific to their industries.



The development of industry-specific applications based on Internet-technology is an area of opportunity for IBM. There is time available to plan and develop such applications prior to users being ready for this move.

Consideration of S/390 for Internet Applications

5/390

As seen in Exhibit II-2, 67% of existing S/390 users would consider in as a platform for Internet applications.

Exhibit II-2

	Select S/390 as Internet Platform			
Consider S/390 as Internet Platform	No (%-age of Respondents)	Yes (%-age of Respondents)	Total	
No	31%	2%	33%	
Yes	19%	49%	67%	
Total	50%	50%	100%	

105 Respondents - Percentages are rounded

Many of the following charts contrast the responses on this basis so that the relative views of these groups becomes clear.

Reasons given when the user said that the company did not consider the S/390 and did not select the S/390 as the Internet platform include the following, in rank order:

Supportue quotes?

- Cost
 - Security concerns
- Overkill
- Using other platforms (e.g. NT)
 - PC platform more mature
- Other uses for S/390

Show

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reasons ham (

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11-3



Exhibit II-3 shows the percentage of respondents who would and would not consider the S/390 within each of the four groups.

Exhibit II-3

Group	Consider S/390 as Internet Platform	
	No (%-age of Respondents)	Yes (%-age of Respondents)
Group 1 — Large installation with an Internet/Intranet	19%	81%
Group 2 — Large installation with planned Internet/Intranet	25%	75%
Group 3 — Smaller installation with an Internet/Intranet	50%	50%
Group 4 — Smaller installation with planned Internet/Intranet	44%	56%

105 Respondents - Percentages are rounded

Reasons given when the user said that the company would/did consider the S/390 and would select the S/390 as the Internet platform include the following, in rank order:

Reliability/Availability

Stability

Expertise in S/390

Security

IBM Reputation

Supportive quotes?

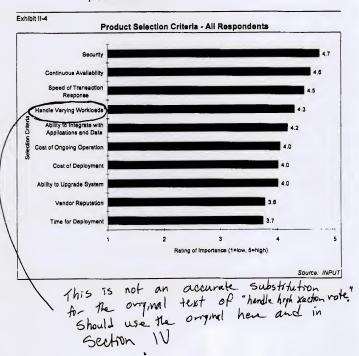
Already have the S/390

YNIBM



Internet/Intranet Platform Selection Criteria

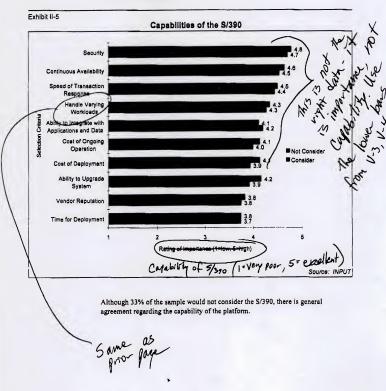
Respondents were asked to rate the importance of hardware and software selection criteria used to select Internet/Intranet applications. These criteria drive the choice of the hardware and software platform. Mean responses for all respondents are presented in Exhibit II-4.





914 432 9418

The capabilities of the S/390 were rated by respondents as to the suitability as an Internet/Intranet platform. The Exhibit II-5 shows the differing views of those who would consider the S/390 and those who would not consider this as an Internet/Intranet platform.





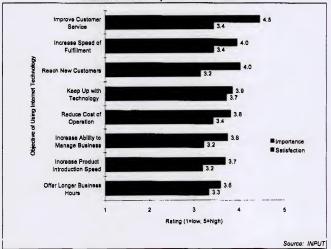
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Drivers and Inhibitors of Internet/Technology Usage

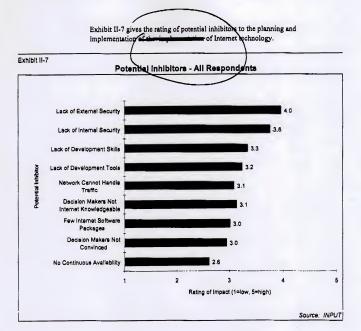
Exhibit II-6 presents the driving objectives to the implementation of Internet technology and the satisfaction in attainment at this point as reported by all respondents.

Exhibit II-8









Security remains the major concern with regard to the Internet environment. The security aspects of the S/390 must be highlighted for success in this market.

Status of Internet Application Deployment

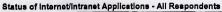
One of the objectives of the study was to examine the S/390 customers' progress towards implementing Internet and Intranet technology.

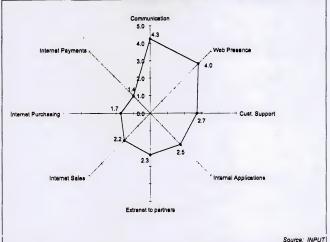
Respondents were asked to describe progress toward live implementation of a list of 8 Internet/Intranet applications. Exhibit II-8 presents the current status of the applications and the stage of development at this time.



INPUT

Exhibit II-8





This chart shows the Users relative maturity in each of the application areas.

The "maturity" values were assigned to the various stages of usage based on the following scale:

No Current Activity

Considering Internet Use -2

Developing Software

Pilot Implemented

Full Implementation

For all groups, Communications is the area in which users have most experience (average value 4.3) and use of payments was the lowest with a value of 1.4. The low

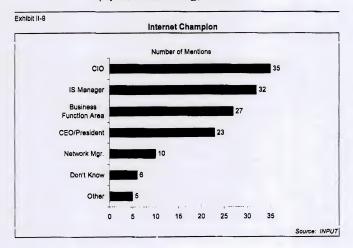


value of maturity for payments reflects the very low, or non-existent, use of Internet technology for inter-company payments.

The strong security features of the S/390 plus ability to integrate with multiple applications, as shown in Exhibit II-5, make the S/390 a good platform for Internet payment applications. This should be emphasized in the S/390 marketing messages.

Internet/Intranet Champions and Decision Makers

In the decision to move to Internet technology, one of the most important people within the company is the Internet champion. This is the person who will push projects along and keep the company moving forward in the use of the Internet. In roughly one-third of the companies interviewed, it is the CIO that is pushing the company towards Internet technology, Exhibit II-9.



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hardware and software products to be used. In about 50% of the respondent companies, the IS department was the main decision maker,

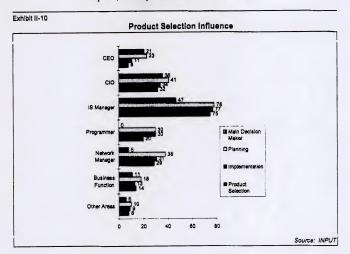
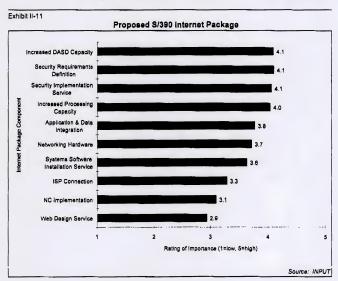


Exhibit II-10 may be slightly biased in favor of IS Manager involvement since IS was the main department interviewed for this study.



S/390 Internet/Intranet Package Considerations

Exhibit II-11 presents the rating of importance of potential elements of an Internet offering of S/390 hardware and software, as reported by the total respondent group.



This shows clear indication of the features that should be highlighted (i.e. those with a rating of 4.0/4.1).

Those with a rating of below 3.5 will bring little benefit to the S/390 Internet/Intranet marketing activity.



Conclusions and Recommendations

Conclusions

- High proportion of users view Internet as related to PC/NT environment at this time
- Cost and security are major issues

IBM must address those who will not consider S/390 - overcome this issue **(3.** and other users will follow

- The low Internet/Intranet "maturity" of many user means that there is still time to make significant impact on the S/390 customer base
- Education is required so that the strength of the S/390 in relation to the 5. criteria for Internet platform selection is promoted and explained to clients
- It is more important to ensure the customers appreciate the potential of the 6. S/390 than to create an optimum package. There are no outstanding features or potential components of a package. Anoung those TESTED

Recommendations

- Buyers Guide that presents fears and responses; confirms ability where 1. S/390 already perceived as good
- Education roadshow -2.
- Focus S/390 on transaction-oriented applications e.g. payments and order 3. processing . k
- Demonstrate ability to be secure and high performance)

ropose or rept other ideas YNIRM

1000 is a significant opportunity to differentiate 5/290 from competition meaningfully meaningfully transaction rate,
on security transaction and existing
stability (reputation with
stability (reputation with
stability (reputation with applications and data



1. Most users have started to use Internet technology, but this is still at an early stage. Most current use is for communications and advertising. Few companies are now making,

or planning to make, gayments via the Internet.

or planning to make, gayments via the Internet.

the low interest/o... # 4 from your page 11-13.

2. Lack of Security and lack of development
skills and tools are inhibitors to the implementation
of Internet technology.

Security, continuous availability, and speed, and rate of transaction response are Key

rate of transaction response are Key

criteria for Internet platform selection.

Criteria for Internet on these criteria interviewed

was also varied very good on customes interviewed

4. About two-thirds (67%) of customes

would conside 5/390 as an Internet platform and about half (49%) would select if to-

Intent applications. Large installations (7x%) were more likely to conside 5/390 # than

Smaller installations (5x%). (what about so kerting?)

Reliability/availability, Stability, customa investment in 5/390 skills, and security were adventiged in 5/390 for Interest use.



6. Cost, Security concens, Overkill, and preference towned other platforms (e.g. NT) are viewed as principles of selecting 5/390 for Internet usc. by those not

7. you # 6.



To: roncd@us.ibm.com From: Wilson Haddow <wh@input.com> Subject: Wording of capabilities questions Cc: Ponnwitz Joanne Bcc:

Ron.

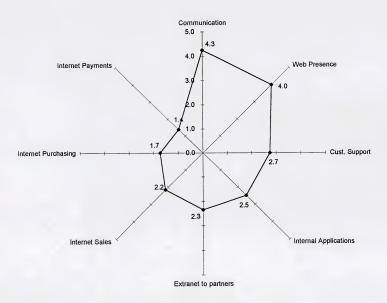
- I have checked with Joanne re. the exact wording on the questionnaires for the S/390 project.
- In question 6.2 (Rating of importance of criteria for product selection), the phrase used was "Ability to handle high transaction volume"
- In question 6.3 (Rating of S/390 capability), the phrase used was: "Ability to handle varying workloads"

These two questions should have used the same wording. I know that you and I discussed the phrasing in one of our phone calls but unfortunately the questions have at some point become or the shilling the hand is a verying workload coupled with the capability ratings being consistently higher than the importance ratings for this question then I believe the damage is minimal.

I did not realize the error until your call this week as the version of the questionnaire in my files has the same phrasing in each question. I must have sent an incorrect version to Joanne prior to the interviews starting.

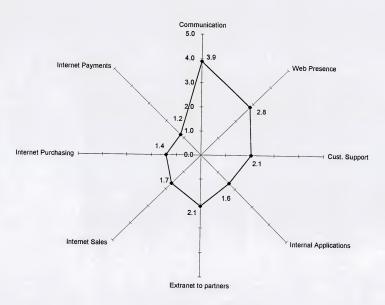
Wilson





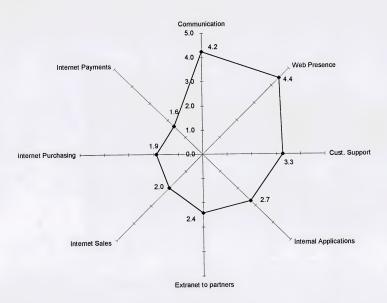
Page 1





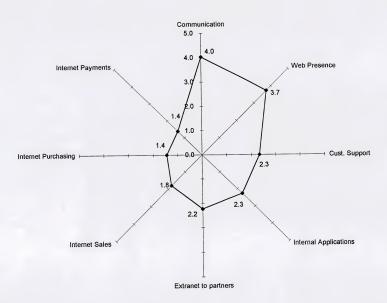
Page 1





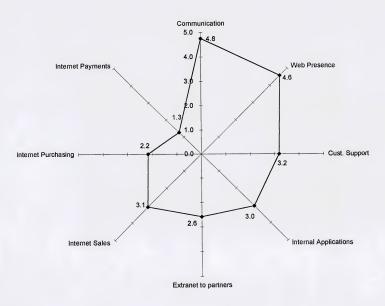
Page 1





Page 1





Page 1



>From roncésus.ibm.com Wed Jul 16 09:14:52 1997 From Ron Dombrogki - croncésus.ibm.com> Tor joanne ponneitzéinput.com> Co: «roncésuret.ibm.cim, «Whěinput.com> Subject: Feedback on files sent Date: Wed, 16 Jul 1997 09:16:15 -0400

Joanne, I received them and would like to make just two requests. For the overall sample, I would like to have the attributes ordered in terms of decreasing importance. I would also like to have importance appear as the top bar (dark color), and satisfaction appear as the bottom bar (light color) in each couplet. Thanks and I look forward to receiving more.

With an eye on how this information can be used within IBM, there are two fundamental analyses we need to produce. The first is relative to q. 6.3. If we divide the sample into those that would select \$/300 and those that would not, we need to demonstrate an analysis leading to why/why not which points toward steps IBM can take. I believe pages 6 and 7 of the questionnaire contain plenty of information to use for this purpose.

The second analysis is to demonstrate how \$/390 might be meaningfully differentiated from competition relative to internet/intranet servers. Again, I believe pages 6 through 8 contain the information with which to do this.

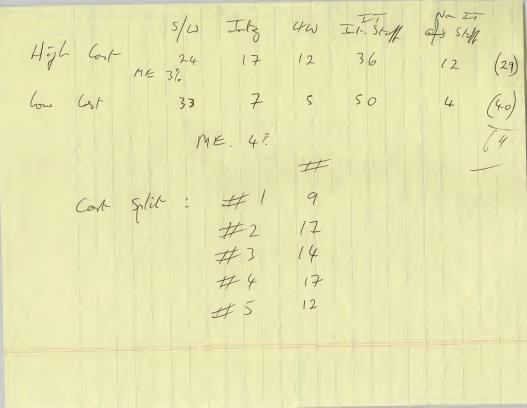
I would be happy to participate in the analysis work in any way that would be of assistance to you (including keeping quiet and out of the way!). Just let me know if I can help.

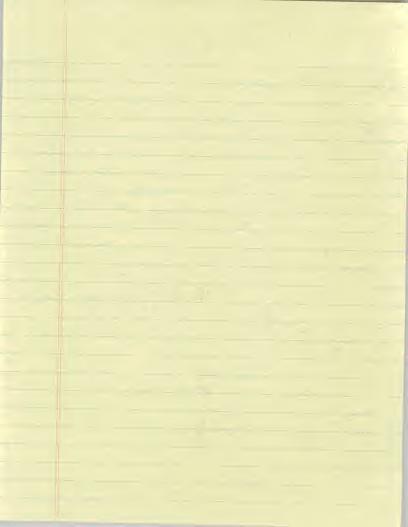
Ron Dombroski Consulting Market Specialist \$/390 Division 522 South Rd MS P124 Poughkeepsie, NY 12601-5400

(914) 433-3091 phone (914) 432-9418 fax

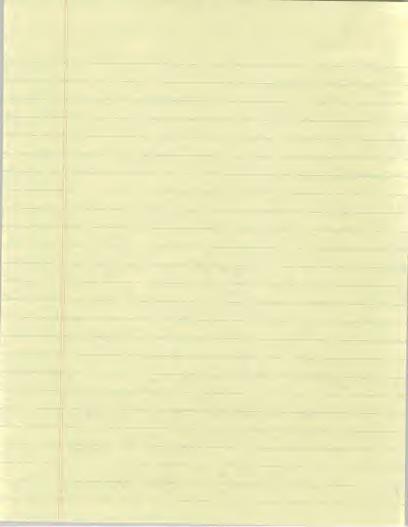
roncd@us.ibm.com





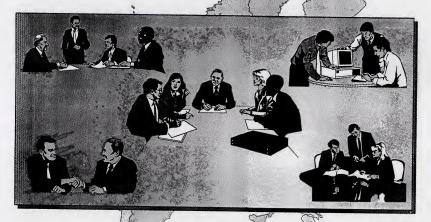


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Large Customer IT Panel Survey Wave # 6



S/390 Division Market Research



Current/Planned Network Computing

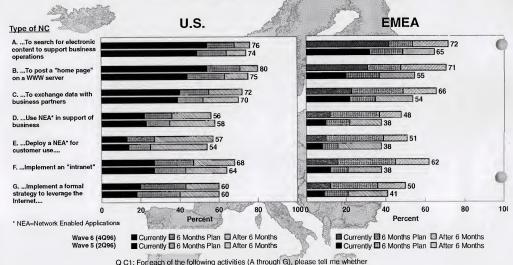
Preliminary 1/31/97

Slight)

S/390 Establishments

Both US and Europe Show Growth Plans For NC

LCIP EMEA Wave 6



Q.C1: For each of the following activities (A irrough each each in exhibition is something your location currently does, plans to do within the next six months, plans to do sometime after the next six months, or has no plans at all to do this.



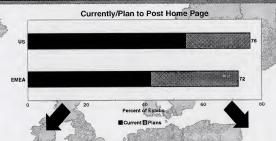
Network Computing: Web Server

S/390 Establishments

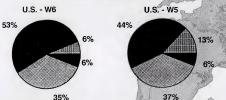
Preliminary 1/31/97

LCIP EMEA Wave 6

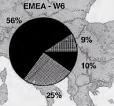
PC Servers Most Popular Choice as Web Server

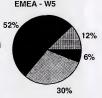


Choice of Web Server



Choice of Web Server





■ Mainframe Midrange/Mini PC/PC Server UNIX/RISC

Q.C2: Current/Planned users: What is the primary platform you are using or planning to use for your WWW Server?

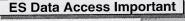


Network Computing: ES Data Access

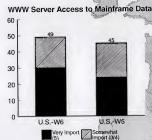
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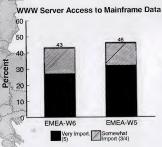
LCIP EMEA Wave 6











Q.C4. If you are posting or planning to post a "home page"... How important is it to have your WWW server have access to mainframe data",....allowing customers to access order status e.g., or account balances. Use scale: 1 (Not Important) - 5 (Very Important)

S/390 Establishments



SECTION C, NEW INSIGHTS

ASK EVERYONE:

C1. Now, we're going to talk about the Internet and value added network providers, or VANs, such as AT&T Global Network Services, IBM Global Network / Advantis, etc.

For each of the following activities, please tell me whether this is something your location currently does, plans to do in the next six months, plans to do sometime after the next six months, or has no plans at all to do this. (DO NOT RANDOMIZE LIST. ASK FOR EACH.)

- / L CURRENTLY DOES
- PLANS TO DO THIS WITHIN THE NEXT SIX MONTHS
 - PLANS TO DO THIS SOMETIME AFTER THE NEXT SIX MONTHS
 - 4 HAS NO PLANS AT ALL TO DO THIS
 - 7 NOT APPLICABLE / NOT RESPONSIBLE FOR THESE ACTIVITIES
 - 8 DON'T KNOW (DO NOT READ)
 - 9 REFUSED (DO NOT READ)
- Access the Internet to search for electronic content to support business operations (IF "NOT APPLICABLE / NOT RESPONSIBLE," SKIP TO C7.)
- b. Connect to the Internet to post a "home page" on a World Wide Web server
- c. Use the Internet or a VAN to exchange data with business partners
- d. Use the Internet or VAN to access a network enabled application in support of your business.
 (IF NECESSARY, SAY: An application delivered via a network, typically by subscriptions, for package tracking, travel reservations or similar activities)
- Deploy a network enabled application for your customers to use that is accessible via the Internet or a VAN such as customer service or order entry
- Implement an "Intranet" or internal network, which uses Internet technology that is accessible within your organization
- g. Implement a formal strategy to leverage the Internet for your organization

ASK C2 AND C3 OF THOSE WITH 1-3 ON C1, ITEM "b." ALL OTHERS SKIP TO INSTRUCTIONS ABOVE C4a.



How important is it that your "home page" on your World Wide Web server have access to

mainframe data? For example, allowing customers to access order status or account balances. Please use a scale of 1 to 5 where 1 is "not at all important" and 5 is "very important."

ASK C4a OF THOSE WITH 1-3 ON C1, ITEM "e".

ALL OTHERS SKIP TO INSTRUCTION ABOVE C4c.

C4a. You indicated that you have or are planning to deploy a network enabled application for your customers to use that is accessible via the Internet or a VAN. What is the primary platform you are using or planning to use for this network enabled application? (PROBE FOR ONE RESPONSE)

VERY IMPORTANT

REF

7

8

9

NOT AT ALL

IMPORTANT

1

2

3

9

NOT AT ALL

IMPORTANT

C3

NOT APPLICABLE

DON'T KNOW

MAINFRAMES

REFUSED

"not at all important" and 5 is "very important."

3

PCs OR PC-SERVERS

OTHER (SPECIFY) :____ NOT APPLICABLE DON'T KNOW

MIDRANGE OR MINI-COMPUTERS

UNIX OR RISC WORKSTATIONS/SERVERS

C4b. How important is it that this network enabled application have access to mainframe data? For example, customer service inquiries or order placement. Please use a scale of 1 to 5 where 1 is

VERY

DK

IMPORTANT

REFUSED



ASK C4c OF THOSE WITH 1-3 ON C1, ITEM "f". ALL OTHERS SKIP TO C7.

- C4c. You indicated that you have or are planning to implement an intranet. What is the primary platform you are using or planning to use for your intranet server? (PROBE FOR ONE RESPONSE)
 - 1 MAINFRAMES
 - 2 MIDRANGE OR MINI-COMPUTERS
 - 3 PCs OR PC-SERVERS
 - 4 UNIX OR RISC WORKSTATIONS/SERVERS
 - 6 OTHER (SPECIFY) :__
 - 7 NOT APPLICABLE
 - 8 DON'T KNOW
 - 9 REFUSED



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www.input.com /reports/390/390_ amain ofm INPUT

1881 Landings Drive, Mountain View, CA 94043 (415) 528-6311 Fax (415) 961-3966

FAX TRANSMITTAL FORM

Date:

Confidential: Y/N

To: (Name)

March 21, 1997 Ron Dombroski

Urgent: Y/N

Tel/Location:

914-433-3091

Page: 1 of 8

Company:

IBM System 390 Division

Fax Number:

914-432-9418

From:

Wilson Haddow wh@input.com

Subject:

Proposal for S/390 Research Project

Dear Ron.

Attached is INPUT's proposal for analysis of S/390 platform for Internet/Intranet applications.

We at INPUT believe we can add a great deal of value to this project because of:

- · Our experience and knowledge concerning the Intranet and Internet market
- Our experience in having worked with IBM on similar projects in the US.

I look forward to discussing this with you and so please call me if you have any questions or require additional information.

Sincerely,

- . - . il hell

indede auditipe of a may atomis as partition.

Wilson Haddow Vice President

Attachment







Proposal for Analysis of S/390 Platform for Internet/Intranet Applications

Objectives

To develop an initial understanding of:

- S/390 customers' progress towards implementing Internet and Intranet applications
- The key drivers behind the hardware and software infrastructure choices for Internet and Intranet applications
 - Inhibitors, critical success factors and differentiators in the implementation of S/390 platforms supporting Internet technology

Benefits to IBM

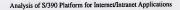
- · Gain improved understanding of S/390 customer usage of Internet technology
- Understand S/390 customer plans for platforms to support Internet technology
- . Ensure an effective investment strategy for S/390 related to Internet and Intranet applications
- · Evaluate customer satisfaction with current Internet application platforms
- Establish a profile of prospects for S/390 Internet platforms

Issues Addressed

INPUT will make best efforts to address the following issues related to the usage of S/390 as a platform for Internet and Intranet applications:

- What business processes, function and applications are being migrated to Internet technology?
- What are the business objectives driving these changes? How satisfied are users that these objectives being achieved?
- Who is initiating the changes and who is responsible for the implementation?
 - . What is the IT architecture being implemented to support these new applications?
- What are the hardware, software and services selection criteria being used for the Internet and Intranet projects? Who is involved in the selection process?
- What hardware and software platforms were considered and selected? What were the factors for and against the S/390?
 - What customer needs remain unmet?
- What is the potential for a packaged solution including S/390 hardware, software and services? What must be included in such a package in order for it to be considered as a platform for Internet







and/or Intranet applications? What additional features and functions would users like to be offered in such a package?

• What are users' plans for the future of the Internet/Intranet IT infrastructure?

Scope and Methodology of the Project

Project Scope

The project focuses on the existing S/390 customer base.

Up to 100 customers will be interviewed regarding their experience and plans for migration to Internet technology. The interviewees will also include customers who do not yet use Intranets or the Internet for business applications.

Comprehensive telephone interviews will be held with IS executives who are responsible for planning and selection of Internet-related hardware and software platforms, These interviews would consist of quantitative and qualitative questions.

Methodology

The methodology that INPUT proposes using for this project is as follows:

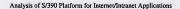
- 1. Create a draft survey questionnaire.
- Meet with IBM to review the questionnaire and to receive a briefing from IBM on the S/390
 product family and market
- INPUT will train the interviewers on those aspects of the S/390 market relevant to the Internet/Intranet market.
- 4. Conduct survey using names and contact information supplied by IBM
- 5. Tabulate and analyze the data tabulation
- 6. Prepare draft results and present to IBM
- 7. Prepare final report for delivery to IBM

Research Schedule

INPUT will complete the study within two months of the contract being signed.

At the end of week 1 of the study, INPUT will meet with IBM to review the proposed questionnaire and receive the S/390 briefing.







Qualifications

INPUT is highly qualified to conduct this work, having performed similar assignments for IBM and many other leading firms in the industry. An summary of some of the projects and a client case study are attached to illustrate examples of some of INPUT's experience.

This project will be led by Wilson Haddow, an INPUT Vice President, and the interview process will be managed by Joanne Ponnwitz. Biographies for Wilson and Joanne are attached. Other staff will be assigned to the project as required.

Fees

INPUT's professional fee for this project is \$46,000 (excluding applicable taxes).

One half of this fee is payable on contract authorization and the remained on delivery of the final report.

Out-of-pocket expenses (primarily travel and report production) will be billed at the end of the project and are not expected to exceed 10% of the total professional fee.

This proposal will remain valid for thirty days, unless extended in writing.

Contract Authorization

To authorize the project as specified, please sign and return one copy of this proposal. Upon acceptance by INPUT, a countersigned copy of the proposal will be returned to IBM and an invoice for 50% of the professional fee will be sent. Payment should be made on receipt of this invoice. The remaining 50% plus out-of-pocket expenses will be invoiced and payable on submission of the final report.

AUTHORIZED BY IBM:	ACCEPTED BY: INPUT
Name	Name
Title	Title
Date	Date



INPUT PROJECT EXPERIENCE:



MARKET ANALYSES:

- Conducted customer satisfaction studies across multiple product lines for one of the largest producers of systems software.
- Assessed the acceptability of UNIX as a platform for a software company considering extending its products to new platforms.
- Studied the market position of the major suppliers to the real time operating system and tools market.
- Performed several studies on current and future networking software markets.
- Surveyed the needs, directions and platform ratings of ISVs for one of the largest manufacturers of specialized platforms.
- Reviewed the current and future competitive environment for a major DBMS supplier.
- Conducted primary research to assess the acceptability of using an object oriented software platform to produce maintainable/reusable code.
- Performed many studies in the CASE/applications development market (see separate listing).
- Have conducted many studies on market/product opportunities in many application software product segments. Through primary research identified needs, gaps, market size, growth, special opportunities, competitive environment, vendor strengths and weaknesses. Examples of segments studied:
 - Manufacturing/distribution (see separate listing)
 - Banking (see separate listing)
 - Insurance (see separate listing)
 - Federal government (see separate listing)
 - State/local government (see separate listing)
 - Financial planning and analysis software
 - Payroll/human resources



CLIENT CASE STUDY



Planning and Implementing Client/Server Support Services

The Client

A worldwide supplier of IT products and services

Client Objectives

- To size the overall U.S. market for client/server-related support services
- To quantify size and growth rates by vertical market, customer size and need factors
- To identify the most-needed services current and future
- To understand the client's market position versus current and future
- competition
 To assess the regional differences
- To understand the relationship between products and services
- To transition from test to large scale rollout of the offering

INPUT's Role

Over a three month period, INPUT:

- Assisted in focusing and defining the client's objectives
- Developed and conducted a primary research plan
- Analyzed the quantitative and qualitative results of the research
- Presented findings to client management
- Advised on rollout implications

Client Benefits

As a result of this engagement, the client received actionable information covering all the client's original objectives.

The study produced additional, important findings, such as

- The study showed how the client could shape the market's direction.
- The client took action to change its perceived strengths and weaknesses in this market.
- The study greatly increased the client's understanding of how an existing
 product relationship can support the delivery of services. Changes were
 made to the implementation plan as a result.

The information from this study was critical input for the client in making extensive modifications to its previous tactical implementation plan.





Wilson Haddow Vice President

PROFILE

CAPABILITIES

- Twenty years of international experience in the computer industry, including 15 years in consulting and computer services.
- With INPUT, Mr. Haddow is currently responsible for INPUT's research in the commercial market
 and manages INPUT's Market Analysis Program. Mr. Haddow was previously responsible for
 research in the Systems Integration, Professional Services and Outsourcing Information Systems
 programs.

BACKGROUND

- Most recently, Director of Marketing for UNIX International, where he focused on marketing and the software and skills requirements for UNIX-based systems within Data Centers.
- He served at Unisys, in their European Headquarters as well as in the US in a variety of roles, including application software consultancy and support, Professional Services Program Management and UNIX product marketing.
- Wilson's qualifications also include working with a European software and services company on sales and support of general business application packages, and the creation of Office Automation division for a computer manufacturer.

EDUCATION

· B.Sc., Mathematics, Strathclyde University, Scotland





JOANNE E. PONNWITZ ASSOCIATE CONSULTANT

PROFILE

CAPABILITIES

- Ten years experience in research project administration including questionnaire design, data collection and data tabulation.
- Highly concentrated skill with application specific software tools for data administration and statistical analysis and project/personnel performance tracking.
- Significant contributor to technical report creation including user case studies, vertical market reports, IS vendor profiles and vendor line of business profiles for acquisition searches.
- Highly effective and efficient interviewer of key decision makers on both technical and nontechnical topics in the information services industry. Key interviewer on 15 major proprietary projects involving over 1,000 detailed interviews since joining INPUT.

BACKGROUND

- Directed Market Research Library for major aftermarket manufacturer.
- Directed research programs in-house and with vendor consulting firms.
- Functioned as an analyst/liaison between user community and the MIS department of a major manufacturer.

EDUCATION

- B.S., Psychology/Social Sciences, Syracuse University.
- M.A., Accounting/Statistics, Fairleigh Dickinson University, in progress.



>From roncdeus.ibm.com Tue Jun 24 17:05:53 1997 From: Ron Dembroski roncdeus.ibm.com> Cg: <a href="color: blue: color: color: blue: color: color

Joanne, thanks for your phone message containing project status. I would like to speak to you by telephone on Thursday to discuss progress. I am requesting this call as I will be on vacation beginning Friday through end of next week. I would also like to plan a phone call for Tuesday, July 8, to catch up. Let's plan for 9 AM for each call unless you suggest otherwise. I will telephone you. I am also looking forward to receiving the tapes. Thanks.

Ron Dombroski Consulting Market Specialist S/390 Division 522 South Rd MS P124 Poughkeepsie, NY 12601-5400

(914) 433-3091 phone (914) 432-9418 fax

roncd@us.ibm.com



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Author: Joanne Ponnwitz at INPUT Date: 6/5/97 9:48 AM

Priority: Normal

TO: roncd@vnet.ibm.com at Internet

CC: Wilson Haddow at INPUT

Subject: IBM test

----- Message Contents -

Ron:

We have started calling the fourteen people on your list, results follow.

- 2 fifteen minutes is too long, will not complete
- 1 information is only available in Sweden, call there
- 1 company policy, will not answer any questions

It is important that IBM send the letter to "open the door" for this project, if we want to complete it quickly. Normally, we need 6-7 times the number of desired completes for the original sample. This questionnaire may be a bit long if they are saying 15 minutes is too long. We will continue to try to reach the rest of the names. I'll update you again on Monday.

Joanne



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Confidential—INPUT

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Tel./Location:	914-433-3091	
	IBM 914-432-9418	Page: 1 of
From: Name:	WILLIAM HADDOW 90 INTERNET CLASSIANARE	Contact Other:
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S/390 Internet/Intranet Questionnaire

1. Business areas in which Internet technology is (or is planned to be) implemented?

[If no plans for implementation within 6 months then terminate interview.]

1.2 Please identify the business areas in which these applications are, or will be, used?
[All companies should be asked about the General Business Areas plus the industry most applicable to them]

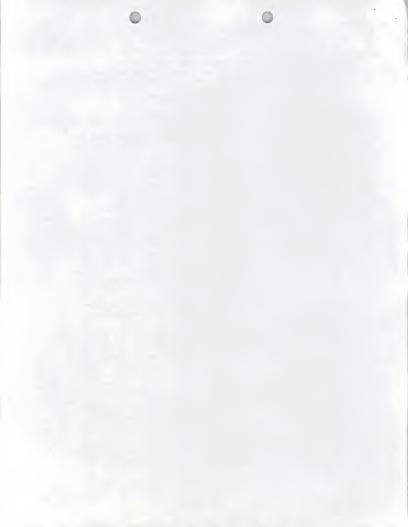
Business Application Areas	Currently used (Y/N)	Will be used within 6 months (Y/N)
General Business Areas		
Accounting & Finance		
Sales		
Advertising and Marketing		
Accounts Payable		
Customer Services		
Communication (e.g. email or groupware)		
Human Resources/Payroll		
Other		

Banking & Finance	
Retail Banking	
Wholesale Banking	
Mortgages	
Trust Funds	
Check/Item Processing	
Trading Systems	
Other	

Distribution Industry	
Store Operations	
Distribution Services	
Supply Chain Management	
Other	

Health Care	
Clinical Information	
Care Delivery Applications	
Information Infrastructure	
Other	

Insurance	
Claims Processing	
Agency/Distribution Systems	
Managed Care	
Other	



Business Application Areas	Currently used (Y/N)	Will be used within 6 months (Y/N)
Manufacturing		
Production Planning		
Manufacturing and Production Operations		
Distribution		
Other		

Telecommunications	
Network Services	
Directory Services	
Customer Services/Billing	
Other	

Comments

2. Internet Implementation Drivers and Inhibitors

2.1 Internet Driver

Please rate, on a scale of 1-5 (1=low and 5=high), the importance of each of the following objectives when implementing Internet technology. If you are already using Internet technology, would you also rate your level of satisfaction with achieving these objectives.

Objective	Importance Rating (1-5)	Satisfaction Rating (1-5)	Comments
Keep up with latest technology			
Reduce costs of operation			
Increase speed of fulfillment			
Reach new customers			
Increase ability to manage business			
Increase speed of introduction of new products and services			
Improve customer service			
Offer longer hours when "open for business"			
Other			

Please comment on areas of low satisfaction (i.e. rated as 1 or 2).



2.2 Internet Inhibitors

Please rate, on a scale of 1-5 (1=low and 5=high) the impact of each of the following potential inhibitors to planning and implementation of Internet technology.

Inhibitors	Impact	Comments
	Rating (1-5)	
Lack of internal computer security	4.0	3.8
Lack of security between company and outside world	32,	4.0
Network unable to handle increased traffic		3./
Key decision makers not familiar with		
Internet/Intranet technology		3.1
Lack of appropriate development skills		3. 3
Lack of development tools		3.2
System not continuously available		2.6
Lack of Internet application packages		3.8
Key decision makers not convinced of		
Internet/Intranet technology value or payback		3.0
Other		

Comments

3. Timing and initiation of use of the Internet

3.1 What is the most important criteria in your decision of when to start using Internet technology for business applications?

Who is the Internet champion in your company? Check (1) the position with main proponent of the Internet.

Position	Internet Champion	Comments
CEO		
CIO		
IS Manager		
Network Manager		
Business Function Personnel Function: Position:		
Other		
Other		



4. Status of Use of Internet/Intranet Applications

For each of the following categories of Internet/Intranet applications, please indicate your company's progress towards live implementation with a check mark $(\sqrt{})$ in the appropriate box

	No Current	Considering	Developing	Pilot	Full
Type of Application	Activity	Internet Use	Software		
	Activity	Internet Use	Software	Implemented (s)	Implementation
Communication (e.g. e-mail,	1	2	β .	6	5
group-ware)	4	12	6	14	68
Web Presence/Marketing	6	7	8	7	4.6
(e.g. display of product					
information on a web site)	12	10	8	13	63
Internet Sales to your customers	24 45	19	28 6	24 10	11
Internal business applications	16	17	18	14	20
(e.g. HR, accounting, planning)	41	22	10	14	18
Internet Purchasing (including	31	32	13	14	15
EDI on Internet) by your	57	2 -	,	7	
company	37	30	6	+	3
Internet Payments by your	36	37	38	14	40
company	74	19	3	3	/
On-line customer support or self-	61	12	13		15
help	24	34	10	14	21
Other entant	2' 37	12 31	23 9	4 9	25 15

Comments on status of use of Internet technology

5. Description of Internet/Intranet IT Infrastructure

What is the IT architecture being used to support these new applications?

5.1 Please describe the mix of hardware and software that you are using to implement these Internet and Intranet applications. Comment on the differences in hardware/software combinations at each level (e.g. data center, enterprise server, departmental server, desktop.

Level 1 (Data Center)

Level 2 (Enterprise or Departmental Server)

Level 3 (Desktop including use of PCs and/or Network Computers)



5.2 Which of the hardware and software platform components were purchased specifically for use with the Internet and which are primarily used for other non-Internet applications? Please answer Yes (Y) or No (N) as appropriate

		Purchased specifically	Primarily used for other
		for Internet/Intranet	applications
Hardware:			
Manufacturer ()		
Model ()		
Hardware:			
Manufacturer ()		
Model ()		
Operating System			
Type ()		
Version (if applicable) ()		
Operating System			
Type ()		
Version (if applicable) ()		
Systems Management Tools			
Name ()		
Version ()		
Systems Management Tools			
Name ()		
Name ()		
Web Server Software			
Name ()		
Version (
Web Server Software			
Name ()		
Version (
Application Software Products			
Name ()		
Version (
Application Software Products			
Name ()		
Version ()		
Other			
Other			

Comments on technology used for the Internet



6. Product Selection

6.1 Decision makers

Please rate the degree of influence of the following people in each area of:

- Planning Internet strategy
 - Implementation of Internet strategy
- Selection of the hardware and software products for Internet applications

The rating should be on a scale of 1 to 5 where 1= not involved and 5 = key decision maker.

Position	Influence in planning	Influence in implementation	Influence in product selection	Comments regarding role or influence
CEO				
CIO				
IS Manager				
Programmer				
Network Manager				
Business Function Personnel Function: Position:				
Other				
Other				

General comments

6.2 Criteria for Product Selection

Please rate the **importance** of each the following hardware and software selection criteria for Internet/Intranet applications on a scale of 1-5 (1= not important and 5 = very important).

Selection Criteria	Rating of		Comment	3
	importance	00	10	
Continuous Availability		4.6	4.3	4.6
Speed of transaction response		4.4	4.4	4.5
Ability to handle varying workloads		4.3	3.9	4.3
Security		4.7	4.5	4.8
Cost of deployment		4.2	3.6	4.0
Cost of ongoing operation		4.2	3.8	4.0
Time for deployment		3.7	3.7	3.8
Ability to upgrade system		4.2	3.9	4.0
Ability to integrate with existing applications and data		4.1	3.8	4.2
Vendor Reputation		3.9	3.8	3. 8
Other important criteria				
Other important criteria				



6.3 Using an S/390 platform

Did (or would) you consider the S/390 as a platform for Internet/Internet applications and did (or would) you select it? Please answer Yes or No

	Yes / No	Reason fo	your choice	
Did /would you consider a S/390 platform for Internet applications?	Yes=1 No=0	7-3	35	
Did/would you select a S/390 platform for Internet applications?	Yes=1 NO=0	54 301 NOWTHER	42 consider non section	

What do you think are the particular advantages of using the S/390 as an Internet/Intranet application platform?

For each of the following criteria please rate, on a scale of 1-5 (1= very poor and 5 = excellent), the capability of the S/390 for use as an Internet/Intranet applications platform.

Criteria	Rating of		Commen	ts
	capability	00	10	((
Overall capability of S/390		4.3	4.3	4.3
Continuous Availability		4.9	5.0	4.7
Speed of transaction response		4.6	4.4	4.4
Ability to handle varying workloads		4.4	4.3	4.6
Security		3.9	4.3	4.4
Cost of deployment		2.7	3.2	3.6
Cost of ongoing operation		3.0	3.1	3.5
Time for deployment		3.1	3.6	3.5
Ability to upgrade system		3.9	3.6	4.1
Ability to integrate with existing applications and data		3.5	3.8	4.2
Vendor Reputation		4.4	4.4	4.5
Other important criteria (include any additional criteria identified in question 6.2)				
Other important criteria (include any additional criteria identified in question 6.2)				

What do you think are the particular disadvantages of using the S/390 as an Internet/Intranet application platform?



7. S/390 Internet Packaging

Assuming you were to consider a package of S/390 hardware, software and services as a platform for Internet and/or Intranet applications, then what would you require to be included in the package?

Please rate on a scale of 1 to 5 (where 1=not required and 5=essential) the importance of each of the following as elements of a S/390 Internet/Intranet package.

Proposed Package Element	Rating of		Comments	
	importance	00	10	11
Increased processing capacity		4.1	4.2	4.0
Increased DASD capacity		3.9	3.9	(4.3)
Implementation of IBM Network Computers (NCs)		3.0	3.1	3.1
Networking Hardware (e.g. Routers and Switches)		3,5	3.4	3.8
Connection to an Internet Service Provider		3.1	3.7	3.3
Services to install and enable the new systems software		3.5	3.8	3.8
Services to design Web pages and structure		2.6	3.3	3.1
Services to provide links to existing applications and data		3.4	4.0	3.9
Services to define security requirements		3.8	4.4	4.2
Services to implement security requirements		3.7	4.4	(4.2)
Other ()				
Other ()				

^{8.} Do you have any additional comments that you wish to make regarding the use of Internet and Intranet applications or the role of S/390 an Internet application server?

Many thanks for your assistance in the survey





Wilson Haddow

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wh@input.com http://www.input.com

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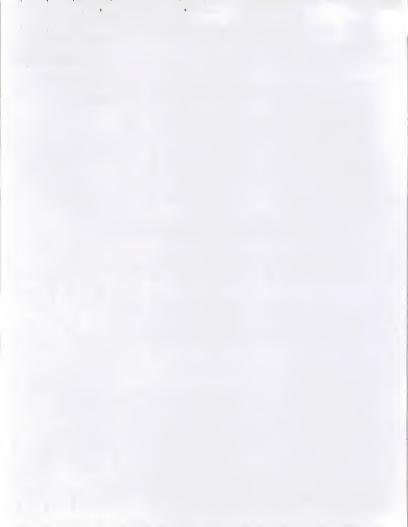
>From roncd@VNET.IBM.COM Wed Jul 02 15:19:06 1997 Date: Wed, 2 Jul 97 15:17:16 EDT From: "Ron Dombrosk!" < roncd@VNET.IBM.COM> To: wh@input.com Subject: Definition

Wilson, per your request, here is the (lengthy) IBM party line on server consolidation vs server integration:

Distributed, client/server customers are realizing that along with benefits of ease of access of information come problems of systems management, security, availability, and scalability. These problems are benefits of the market time called many different names "server integration", in order to address the entire problem, the \$/390 Division is focusing on an integration solution, Server Integration. Server Integration scores and server locations to reduce administration costs and increase data integrity and access. To gain control over the distributed systems management problems, (2) the deployment, administration, availability, and security of the entire computing environment can be handled by \$/390 advanced suite of systems management/security products handled by advanced suite of system management/security products data access and exploit existing core applications, Server Integration also provides the ability to (3) integrate applications and data access and exploit existing core applications and data and the control of the provides the ability to (3) integrate applications and data access and exploit existing core applications and data access the exploration is control of the contro

S/390 Server Integration:

- Consolidation of servers and server locations
 Customers need to reduce the complexity of their server network by reducing the number of physical locations and the number of servers. S/390 provides an open platform for centralizing workload for gains in cost and operations efficiency, security, availability, and scale.
- 2. Systems Management and Security Customers require an end-to-end view of their enterprise infrastructure to achieve better control over their resources and applications. To manage this infrastructure, System Management products must provide that end-to-end view capable of managing the disciplines of deployment, administration, security, and distribution.
- 3. Business Process Automation Customers can further exploit cost effective measures by integrating existing core applications, new applications, and data throughout the enterprise. Instead of rewriting or re-engineering vital, core applications, 8/309 provides the capability to define automated business processes that execute applications/data from anywhere in the enterprise through distributed transaction processing.





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Executive Summary

This study (Analysis of S/390 Platform for Internet/Intranet Applications) examined S/390 customers' progress towards implementing Internet and Intranet applications. Other areas addressed by the study include key drivers behind the hardware and software infrastructure choices for Internet and Intranet applications, and the capabilities of the S/390 platform to support these Internet applications.

This summary provides a top-level analysis of the findings of the study and key conclusions.

Α

Current and Planned Use of Internet/Intranet Applications

Most users have started to use Internet technology. However, this is still at an early stage (i.e. used predominately for communication).

Few companies are making, or planning to make, payments via the Internet.

Exhibit 1 shows the percentage of companies using Internet/Intranet applications of differing types. Respondents were asked to identify all the business areas in which Internet/Intranet applications are or will be used.

Most companies are still relative novices in their use of Internet technology. This is illustrated by the low percentage (under 25%) of customers using the Internet for more "sophisticated" applications such as Sales and Accounting.

For most organizations, the evolution of application types is:

- 1. Access email communication
- 2. Presence advertising via creation of a home page
- Operation use of internally focused applications (e.g. Human Resources) and/or "passive" (non-transaction oriented) applications such as on-line availability of manuals

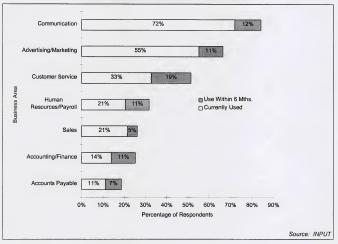
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- Transaction use of applications requiring a 2-way flow of transactions across an Internet/Intranet (e.g. order systems)
- 5. Payments --- electronic payments issued across the Internet

Exhibit 1

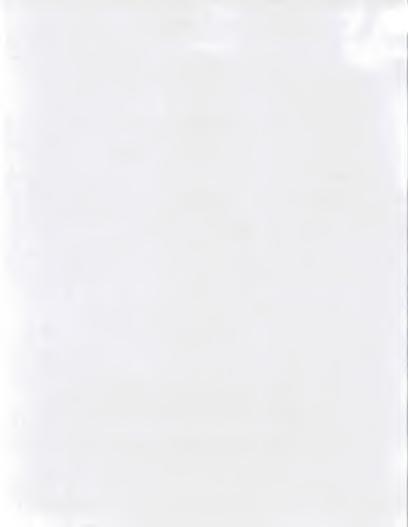
Current/Planned Use of the Internet/Intranet



107 Respondents

The greatest opportunity to increase the use of Internet/Intranet applications is in the application areas where there is low current activity — Accounts Payable, Accounting/Finance, Sales and Human Resources. These are the areas where plans are just being made for system development.

Very few customers indicated any plans for using Internet technology within application areas specific to their industries.



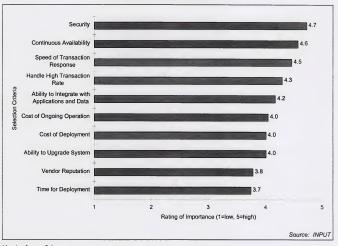
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Internet/Intranet Platform Selection Criteria

Respondents were asked to rate the importance of hardware and software selection criteria used to select Internet/Intranet applications. These criteria drive the choice of the hardware and software platform. Mean responses for all respondents are presented in Exhibit 2.

Exhibit 2

Product Selection Criteria



Margin of error: 0.1

It is unusual to obtain an average rating of over 4.5 or higher, on a scale of 1-5, in a survey.

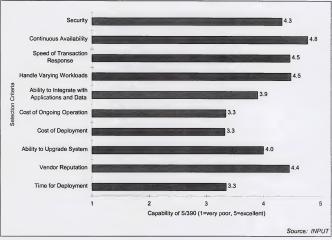
The high ratings for security, availability and transaction response rate criteria indicate that these are extremely important points.



The capabilities of the S/390 were rated by respondents as to its suitability as an Internet/Intranet platform. Exhibit 3 shows the mean ratings of respondents of the capabilities of the S/390 as an Internet/Intranet platform.

Exhibit 3

Capabilities of the S/390



Margin of error: 0.1

Although there are some differences between the ratings of importance for the various criteria and the ratings of \$3390 capabilities, most respondents indicate there is a good overall match. This match is especially true for the criteria rated most highly in importance.



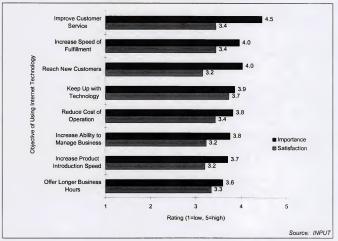
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Drivers and Inhibitors of Internet/Technology Usage

Exhibit 4 presents the objectives driving the implementation of Internet technology and the satisfaction in attainment at this point as reported by all respondents.

Exhibit 4

Internet Drivers - Importance and Satisfaction



Margin of error: 0.1

The relatively low ratings of satisfaction with achievement of objectives compared with importance of the Internet drivers is consistent with other studies that INPUT has conducted in the Internet market.

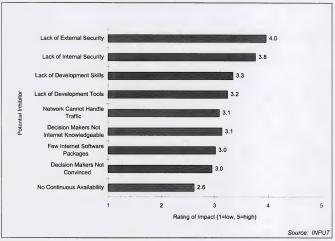
The primary cause of the shortfall is the short lifespan, and relative immaturity, of applications in this part of the market.



Exhibit 5 gives the rating of potential inhibitors to the planning and implementation of Internet technology.

Exhibit 5

Potential Inhibitors to Internet Technology Implementation



Margin of error: 0.1

Security remains the major concern with regard to the Internet environment — this an area where the S/390 was highly rated.

n

Status of Internet Application Deployment

One of the objectives of the study was to examine progress towards implementing Internet and Intranet technology.

Respondents were asked to describe progress toward live implementation of a list of 8 Internet/Intranet applications. Exhibit 6 presents the current status of the applications and the stage of development at this time

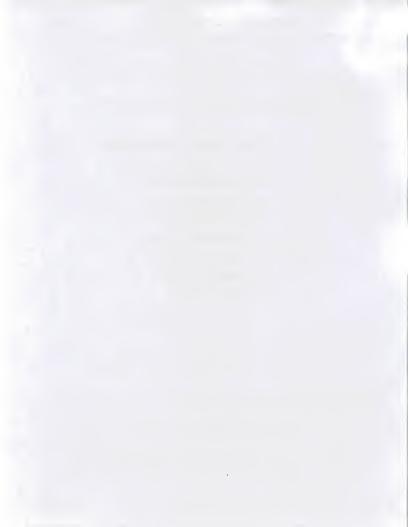
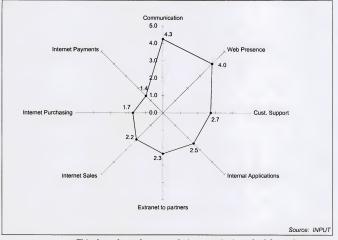


Exhibit 6

Status of Internet/Intranet Applications

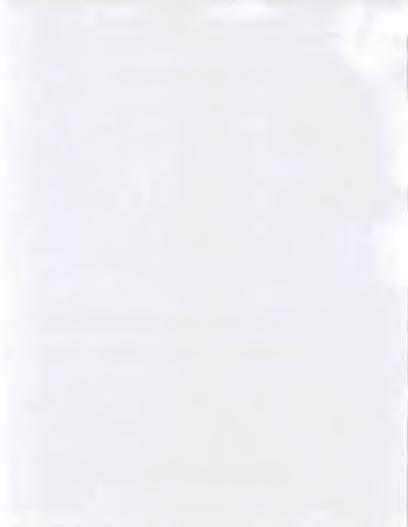


This chart shows the users relative maturity in each of the application areas.

The "maturity" values were assigned to the various stages of usage based on the following scale:

- No Current Activity 1
- Considering Internet Use 2
- Developing Software 3
- Pilot Implemented —4
- Full Implementation 5

Communications is the area in which users have most experience (average value 4.3) and use of payments was the lowest with a value of



1.4. The low value of maturity for payments reflects the very low use of Internet technology for inter-company payments.

The strong security features of the S/390 plus ability to integrate with multiple applications, as shown in Exhibit 3, make the S/390 a good platform for Internet payment applications.

Ε

Internet/Intranet Champions and Decision Makers

In the decision to move to Internet technology, one of the most important people within the company is the Internet champion. This is the person who will push projects along and keep the company moving forward in the use of the Internet.

In roughly one-third of the companies interviewed, it is the CIO that is pushing the company towards Internet technology, Exhibit 7.

Exhibit 7 Internet Champion CIO 35 IS Manager Rusiness Function Area CEO/President Network Mgr. Don't Know Other 10 15 25 30 35 Number of mentions

The IS department, the CIO and the IS Manager, are also the main positions involved in the planning and implementation of Internet strategy and the selection of hardware and software products to be used.

Source: INPUT



In about 50% of the respondent companies, the IS department was the main decision maker.

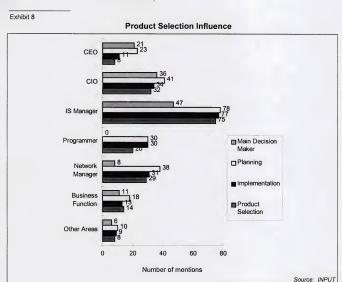


Exhibit 8 is believed to be biased in favor of IS Manager involvement since IS was the main department interviewed for this study.

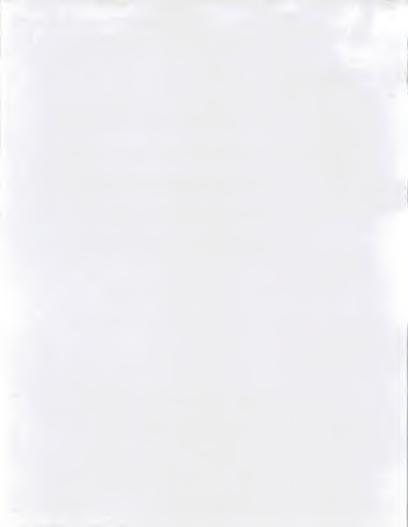


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Conclusions

Conclusions

- Most customers have started to use Internet technology, but this
 is still at an early stage. Most current use is for communications
 and advertising.
- Few companies are now making, or planning to make, payments via the Internet.
- Lack of security and lack of the development skills and tools are key inhibitors to the implementation of Internet technology.
- Security, continuous availability, and speed and rate of transaction response are key criteria for Internet platform selection. S/390 was rated very highly on these criteria.
- The Internet/Intranet environment should be considered as a multi-platform and not a single-platform environment.



Author: "Ron Dombroski" <roncd@VNET.IBM.COM> at Internet 5/30/97 4:22 PM Priority: Normal TO: Wilson Haddow at Input TO: joanne ponnwitz@input.com at Internet Subject: Comments ----- Message Contents Here are our comments, in prep for the telephone call. 01. Should not limit this to Internet only. Should be Internet of Intranet. But some of the questions in the survey, like 01 better lend themselves to Internet, rather than Intranet. Perhaps we should have an initial question that asks "are you implementing Internet applications, intranet appls, or both?" Does marketing mean "advertising?" MKt, a Aductosing I assume all customers get read the general business areas, then we segue into the industry specific sections if applicable? Merchandising under distribution industry does not communicate very well. What does this mean, since "sales" is already under general business. Customer service should be under distribution. Or is it generic enough to go under the general business areas at top? Would also apply to insurance and perhaps manufacturing for sure. Q.2.1 Remove "increase revenue" in favor of "reach new customers" "Increase revenue" sounds/too high level and like something everyone will want. Add "Offer new products or services" and "Sell more of current products to gurrent customers" What about "get products or services to market faster?" is different than "reduce order-to-delivery time. Q.2.2 This is not an "importance rating." It is a "degree of inhibitor" rating. Need to add some political inhibitors like "executive(s) not familiar with Internet/Intranet technology" and "executives not convinced of Internet/Intranet value or payback." Alternately, could say "political reasons." Lack of appropriate development tools

Could probably just say "security" as one choice if we are

Q3. Good

sure to capture comments.



Q4.. "Full" rather than "live?" Or "full production" rather than "live implementation?"

Add "by your company" to Internet Purchasing

I'm still concerned, even with the change in the line above, that "Internet sales by your company" will get confused with "Internet purchasing by your company." Perhaps we could say "Internet sales" first. Alternately, we could say "Internet sales to customers of your company."

Add "customer support or self help?"

Q5 Bottom table could have more than one in each category

Middle column should read "Used for Internet/Intranet" so the contrast with the last column is clear.

How about "Internet/Intranet server software?"

Would like to capture "pc" or "network computer" as to what is the desktop.

- Q6.1 Seems repetitive with Q3. Perhaps we would be better served getting the business driver in Q3 and the technology and applications decision makers here.
- Q6.2 Question text should clearly read "..for Internet or Intranet applications"

Add "Skills availability"

What about "Ability to handle high transaction volume?"

I would rather do the importance rating as a separate question different from rating S/390 capability. Thus, I think we should phrase 6.2 as "importance in selecting a server platform for Internet or Intranet applications." Then we should ask about whether S/390 was considered. Then, finally, we should ask about the S/390 ratings against the criteria.

Change "low cost of deployment" to "Price of initial deployment" and add "Ongoing costs of operation" No need to qualify either of these with "low." No other criteria is qualified.

What about "time to deploy" and "scalability, or ability to upgrade," "vendor reputation?"

Q7. Another approach to this might be to ask this question in the context of the generic requirements style of 6.2. That is, to ask to what degree these additional items are required of any Internet/Intranet package. Linking them to S/390 may distort whether or not an S/390 with these elements would actually be competitive, even if provided.

I don't think we are learning enough about the potential differentiators for \$\$\text{S}\$/390. But let's talk about this. I think we are ok against the other two objectives.



The W/Ithou W S/390 Internet Questionnaire Draft
To N/N Ke tail

1. In which business areas is Internet technology being(or planned to be) implemented?

Is Internet technology used in any of the following business or application areas, or are there plans for its use within the next 6 months?

[The following business areas are split in general and then industry specific sections]

Business Application Areas	Currently used (Y/N)	Will be used within (months (Y/N)
General Business Areas		
Accounting & Finance		
Sales		
Advotising and Marketing		
Accounts Payable		
Human Resources/Payroll		
End and grouperal		
Distribution Industry		
Store Operations		
Distribution Services		
Mechandising		
Supply Chain Managemene		
Other		
Health Care		
Clinical Information		
Care Delivery Applications		
Information Infrastructure		
Other		
Insurance		
Claims Processing		
Agency/Distribution Systems		
Managed Care		
Other		
Manufacturing		
Production Planning		
Manufacuring and Production		
Operations		
Distribution		
Badin & Fine Other		
Telecommunications		
Network Services		
Directory Services		
Customer Services/Billing		
Other		

[If no plans for implementation within 6 months then terminate interview.]



S/390 Project 5/27/97

2. Internet Implementation Drivers and Inhibitors

2.1 Internet Drivers

Please rate, on a scale of 1-5 (1=low and 5=high), the importance of each of the following objectives when implementing internet technology. If you are already using Internet technology, would you also rate your level of satisfaction with achieving these objectives.

Donne Live Inder med of italution of any soluts					
Objective	Importance	Satisfaction	Comments		
	Rating (1-5)	Rating (1-5)	•		
Keep up with latest technology					
Reduce costs of operation	10am				
Reduce order to delivery time					
Increase revenue					
Increase ability to manage business					
Other Types Central de	٠.٠				
Other offer Gar Can	1 nuti				

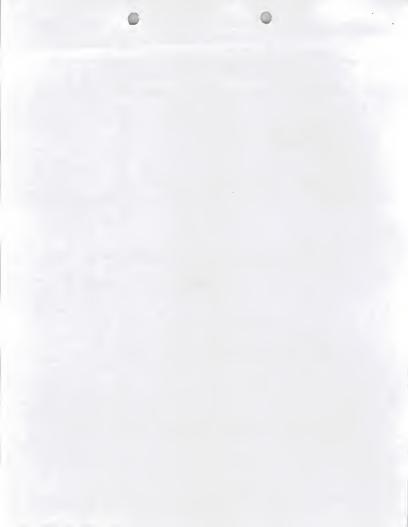
Please comment on areas of low satisfaction (i.e. rated as 1 or 2).

2.2 Internet Inhibitors

Please rate, on a scale of 1-5 (1=low and 5=high) the impact of each of the following potential inhibitors to planning and implementation of Internet technology.

	Impact	
Inhibitors	Rating (1-5)	Comments
Security within the company		
Security between company and outside world		
Network unable to handle increased traffic		
Lack of appropriate development skills		
Lack of internet application development tools		
System not continuously available		
Lack of internet application packages		
Other		
Other		

What is the most important criteria in your decision of when to start using Internet technology for business applications?



S/390 Project 5/27/97

3. Who is initiating the use of the Internet and who is responsible for the implementation?

Who is the internet champion in your company? Who has responsibility for planning and implementing the Internet strategy? Check (√) the position with main responsibility for each of the columns.

		_	
Position	Internet	Technology	Application
	Champion	Selection	Implementation
CEO			
CIO			
IS Manager		,	
Network Manager			
Business Function Personnel			
Function:			
Position:			
Other			
Other			

Comment

4. Status of Use of Internet/Intranet Applications

For each of the following categories of Internet/Intranet applications, please indicate your companies progress towards live implementation with a checkmark (1) in the appropriate box

					Full
	No Current	Considering	Developing	Pilot	Live
Type of Application	Activity	Internet Use	Software	Implemented (s)	Implementation
Communication (e.g e-mail,			7		
group-ware)					
Web Presence/Marketing					
(e.g. display of product					
information on a web site)			/		
Internal business applications			/		
(e.g. HR, accounting, planning)			Y		
Internet Purchasing (including		/			
EDI on Internet) by your com	rang.	/			
Internet Payments by your		1			
company		l \ /			
Internet Sales by your company	·				
Other Scurtolar Suggar	-	ν-			
Other Automoted					

Comments on status of use of Internet technology



5. IT Infrastructure

What is the IT architecture being used to support these new applications?

Please describe the mix of hardware and software that you are using to implement these Internet applications. Comment on the differences in hardware/software combinations at each level (e.g. data center, enterprise server, departmental server, desktop.

Level 1 (Data Center)

Level 2 (Enterprise or Departmental Server)

Level 3 (Desktop) (intra your contor

Which of the hardware and software platform components are used for Internet applications and which were purchased specifically for use with the Internet? Please answer Yes (Y) or No (N) as appropriate

Platform Components		A Ised for applications	Purchased specifically for Internet/Intranet
Hardware:			
Manufacturer (
Model (
Operating System			
Туре ()		
Version (if applicable) (
Systems Management Tools			
Name (
Version (
Application Software Products			
Name ()	•	
Version ()		
Other			
Other			

Comments on technology used for the Internet

Intend-/Intended Saver S/W



6. Product Selection

6.1 Decision makers

Please rate the degree of influence of the following people in the selection of the hardware and software for Internet applications. The rating should be on a scale of 1 to 5 where 1= not involved and 5 = key decision maker.

Position	Rating of selection role	Comments regarding role or influence
CEO		
CIO		
IS Manager		
Programmer		
Network Manager		
Business Function Personnel		
Function: Position:		
Other		
Other		

6.2 Criteria for	r Selection
------------------	-------------

for Island - tolmet

Rating of

Rating of

Please rate each of the following hardware and software selection criteria on a scale of 1-5 (1= not important and 5 = very important). Also rate the ability of S/390 systems to satisfy these criteria (where 1=very poor and 5 = excellent)

344444	•••	importance	S/390 capability
Continuous Availability			
Speed of transaction response			
Ability to handle varying workload	इ ८चि-		
Security			
Loncost of deployment			
Ability to integrate with existing ap	plications and data		
Other important criteria	,		
Other important criteria	/		
)		

Skell and sil.

Comment:

Selection Criteria

IBM-OUES.DOC

Confidential - INPUT



S/390 Project 5/27/97

Did (or would) you consider the S/390 as a platform for Internet/Internet applications and did (or would) you select it? Please answer Yes or No

	Yes / No	Reason for your choice
Did/would consider a S/390 platfrom?		
Did (or would) select a S/390 platform?		

Additional Comments:	ult	alum	t.m

7. S/390 Internet Packaging

Assuming you were to consider a package of S/390 hardware, software and services as a platform for Internet and/or Intranet applications, then would you require to be included in the package? Please rate the importance of each of the following as elements of a S/390 Internet/Intranet package. Rate each of the elements on a scale of 1 to 5 where 1-mot required and 5-essential.

Proposed Package Element	Rating of importance	Comments
Increased processing capacity		
Increased DASD capacity		
Introduction of IBM Network Computers (NCs)		
Networking Hardware (e.g. Routers and Switches)		
Connection to an Internet Service Provider		
Services to install and enable the new systems software		
Services to design Web pags and structure		
Services to provide links to existing applications and data		
Services to define security requirements		
Services to implement security requirements		
Other ()		
Other ()		

Additional Comments



Fax Cover Sheet

TO: WILSON HADDON
415. 961- 3966

From: Ronald C. Dombroski

Consulting Market Analyst

IBM System 390 Division

522 South Road (P124)

Poughkeepsie, NY 12601-5400

Phone: (914) 433-3091

Fax: (914) 432-9418

Subject: 184 To 'Do's

(compleke)

Mount of Pages: 3

questions/

(including cover sheet)

Notes: 1) SALA US TEP/IP

Stock is more important for resp.

2) Does Scale of NC implementing

force a different platform Choice



Date and time

22/05/97 23:12:08

From: BLAKEM --NHBYM8
To: VRABLIK --PKEDVM9 Rob Vrablik
cc: RONCD --PKEDVM9 Ron Dombroski

*** Resending note of 05/21/97 11:28
From: Mike Blake - NHBVM8, BLAKEM 31-4914 (44-(0)1256-344914)
\$3/390 Network Computing Market Development Leader
SUBJECT: To-Do: Urgent

Rob/Ron, My input inserted at the end where the question was asked.

Q? Are we asking them what their current web server is etc. ?

To: RONCD --PKEDVM9
cc: BLAKEM --NHBVM8

**** Resending note of 05/20/97 11:28 Robert J. Vrablik 522 South Road, Mail Drop P124 Poughkeepsie, New York 12601-5400 Subject: To-Do: Urgent

From: Ron Dombroski
Consulting Market Specialist
IBM System/390 Division

At Thursday's kick-off of the drill-down interviews in network computing, Input requested three things for which I need your response. We have been asked to provide a hypothesized set of answers to the following three issues which will be tested with customers. The purpose of the hypothesis is to ensure we prepare interviewers for these items and to facilitate recording answers. This does not close off other customer answers or have any bearing on the study results. Please take a crack at providing me with the three lists requested below by Thursday. Thanks.

ISSUE: "What are the hardware, software, and services selection criteria being used for the Internet and Intranet projects? -IBM to provide list of possible criteria

! This is what our customers think the least about at this point. We are ! raising this issue each time we engage our customers in a discussion. ! The criteria has to be grounded in business issues first. The major I theme of the business issue is "quality of service" and it is based on ! the first principle that the Web is always open to use as a channel I to reach a business or institution. When a business or institution ! decides to offer its customers the Web a channel to conduct a I business transaction it is extending a very big promise to their ! customers that "you can count on my Web site to be there on demand when you need us". This translates into the criteria for continuous ! availability and good response time. Behind this the criteria calls for ! just in time capacity (scalability) and the highest levels of security I for the customer privacy of the client and the protection of the I business's or institution's electronic assets. In addition, criteria ! for deployment must be accomplished at lowest incremental cost. ! Especially when access to existing data and applications come into ! the solution model which 99% of the time it will. ! This includes all administrative (soft costs) and hardware/software ! investments. ! Generally Web initiatives do not start in the data center when ! these disciplines are better understood. Web initiatives generally start elsewhere (e.g. Marketing) where I/T skills to run mission



when deployment begins. Is only after the project has processed ! and investments made do these issues surface. Addition capital is. ! invested to "fix" the issues. I It is imperative that data center management intercept these projects i early enough to document this criteria and then demonstrate a ! one for one correlation to satisfying the criteria in deployment. We ! believe that 8/390 will satisfy the criteria above all other | alternatives. The alternatives are: ! - creating the Web site on a Wintel/Risc platform ! - duplicating data and moving it to that site ! - linking this site to the "enterprise server" to access data ! - recreating applications to mimic what existing applications on the "enterprise server" already perform on the alternative Web site ! - acquiring the alternative hardware and software to meet the criteria ! - recreate administrative procedures to manage the alternative Web sita 1 - staff the Web site

ISSUE: "What were the factors for and against S/390?" -IBM to provide list of possible factors

! Factors For ----> see the discussion above | Factor Against:

- the fear of putting the Web site on the "enterprise server" for security reasons

- political. Organizations outside the data center want to be the control point

- businesses and institutions just are not aware off the Web capabilities of the S/390

! - IBM Sales and Services and Industry Solution Units don't market S/390 Web capabilities

! - S/390 is only used for access to legacy application and data access not for new applications

weed additional "What additional features and functions would customers like to be offered in an Internet/Intranet packaged solution?" -IBM to provide list of possible features and functions ! Mike Blake - Market Development team leader is the best person to | answer this question NHBVM8(BLAKEM)

Should this solution include: - (multiple choices) Increased processing capacity (upgrade or new footprint) Increased DASD capacity IBM Network Stations (Network Comuters) Additional networking hardware (switches and routers) Connection to an Internet Service Provider

Services to install and enable the required new system S/W

Services to design Web pages and structure

Services to link provide links to existing applications and data

Services to define security requirements

Services to implement security requirements

Ronald C. Dombroski 914-433-3091 (t/l 293) PKEDVM9/RONCD MD P124 IBM Poughkeepsie

522 South Rd, Poughkeepsie, NY 12601-5400

New Single



Fax Cover Sheet

Tọ:	WIL	50w /	HADDON	
	415.			

From: Ronald C. Dombroski

Consulting Market Analyst

IBM System 390 Division

522 South Road (P124)

Poughkeepsie, NY 12601-5400

Phone: (914) 433-3091

Fax: (914) 432-9418

Subject:	1BM	To	Do.2		atall	
	comp	lete	- Sent	to	Keep	things moving)
No. of Pa	ages:	3				Moving

(including cover sheet)

Notes:



Date and time

05/21/97 11:28:05

From: VRABLIK --PKEDVM9
To: RONCD --PKEDVM9
cc: BLAKEM --NHBVM8

*** Resending note of 05/20/97 11:28 Robert J. Vrablik 522 South Road, Mail Drop P124 Poughkeepsie, New York 12601-5400 Subject: To-Do: Urgent

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Consulting Market Specialist IBM System/390 Division

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! - linking this site to the "enterprise server" to access data



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1 - acquiring the alternative hardware and software to meet the criteria
1 - recreate administrative procedures to manage the alternative Web
1 - site

! - staff the Web site

ISSUE: "What were the factors for and against S/390?"
-IBM to provide list of possible factors

| Factors For ---> see the discussion above |
| Factor Against: |
| - the fear of putting the Web site on the "enterprise server" for |
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| - political Organizations outside the data center want to be the |
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| capabilities of the 5/390 |
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| - S/390 vis only used for access to legacy application and data access

ISSUE: "What additional features and functions would customers like to be offered in an Internet/Intranet packaged solution?"
-IBM to provide list of possible features and functions
! Mike Blake - Market Development team leader is the best person to answer this question NHBVM6(SLAKEM)

Ronald C. Dombroski 914-433-3091 (t/l 293) PKEDVM9/RONCD MD P124 IBM Poughkeepsie 522 South Rd, Poughkeepsie, NY 12601-5400

not for new applications



Fax Cover Sheet

To: _	WILSON HADDON	_
	415.961.3966	

From: Ronald C. Dombroski

Consulting Market Analyst

IBM System 390 Division

522 South Road (P124)

Poughkeepsie, NY 12601-5400

Phone: (914) 433-3091

Fax: (914) 432-9418

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	_	3/2		

No. of Pages: 2

(including cover sheet)

Notes:



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Mar 06 draft of Discussion Guide for Drill-Down Research into Network Computing and Server Platform Needs

Scope:

50 to 100 telephone interviews providing a qualitative summary

Objectives:

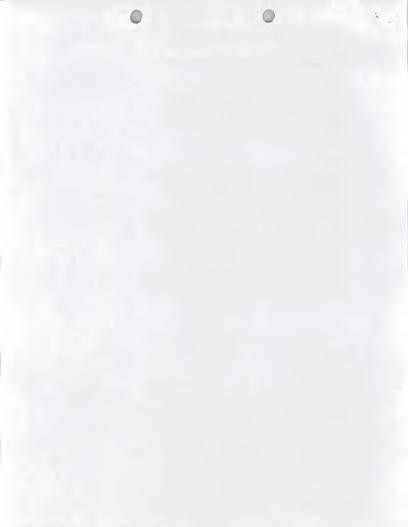
To Develop an Initial Understanding of:

- 1) Customers' Progress toward Internet/Intranet Applications
- The key drivers behind the platform infrastructure choices for Internet/Intranet applications
- Inhibitors, critical success factors, and potential differentiators in the implementation of \$/390 platforms supporting Internet/Intranet applications

Discussion Topics:

- What business activities are supported and what type of applications
- are customers implementing on either the Internet or an Intranet?

 What are the business drivers and goals behind these initiatives?
- Which department of function is driving the applications?
- What is the basic IT architecture (e.g. 2-tier, 3-tier) for these?
- What are the major criteria they are using in the selection of
- hardware and software infrastructure to support the Internet/Intranet?
- Who is making the decision on platform?
- What platform types were considered? Which was selected? Why?
- What appear to be the undermet needs?
- What appear to be the undermet needs?
 If implementation on \$\infty\$/390 was not considered, why was it not
- considered?
- What would it take for a S/390 to be considered for such an implementation?
- What is the interest/opportunity for a hardware/software/services packaged S/390 web server solution? What are the key requirements?
 What is the planned evolution of the infrastructure? How might it change? How fast will it grow?



Ron Dombroski - Team header Maket Research 390 Division Modketing

Phone - 914 - 433 - 3091 Fox - 914 - 432 - 9418

Wonts a research project that will idealify the following:

- 1 Drivers and criteric behind platform choices for Interest fectual applications
- @ Inhibitors and drives for 390 range
- (3) hered of customer progress towards use of 290 for interest intranet and for status for other platforms e.g. we smaller platform, Soing used for pilot or small apple. They have 390 customer and prospects.

hading for so-100 in depth interviews - not just plan question

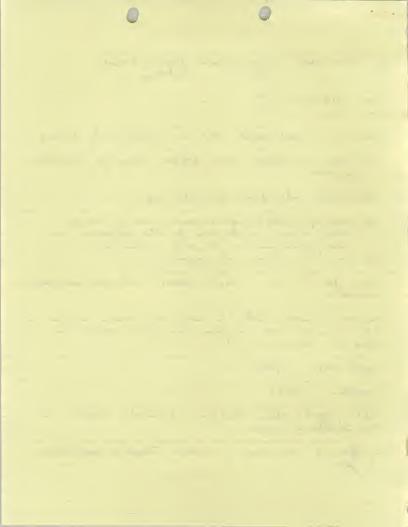
They are delibertedy looking to use new research corporages for the Tolon Filer groups. They are asking 2 companies to bid.

Toget bought - \$5010

Timude - 2097

West-proposed which identifies downstrable expentise in this are within 2 weeks.

I offered to said every of Internet Integration generations are by force.



INPUT'

1881 Landings Drive, Mountain View, CA 94043 (415) 528-6311 Fax (415) 961-3966

FAX TRANSMITTAL FORM

Date: March 21, 1997

XX419 801 9800

Confidential: Y/N Urgent: Y/N

To: (Name) Ron Dombroski

Tel/Location: 914-433-3091

Page: 1 of 8

Company: IBM System 390 Division

Fax Number: 914-432-9418

> From: Wilson Haddow wh@input.com

Subject: Proposal for S/390 Research Project

Dear Ron.

Attached is INPUT's proposal for analysis of S/390 platform for Internet/Intranet applications.

We at INPUT believe we can add a great deal of value to this project because of:

- · Our experience and knowledge concerning the Intranet and Internet market
- · Our experience in having worked with IBM on similar projects in the US.

I look forward to discussing this with you and so please call me if you have any questions or require additional information.

Sincerely,

- . - . il hell

Wilson Haddow Vice President

Attachment



INPUT°

Proposal for IBM S/390 Group 3/21/97

Proposal for Analysis of S/390 Platform for Internet/Intranet Applications

Objectives

To develop an initial understanding of:

- S/390 customers' progress towards implementing Internet and Intranet applications
- The key drivers behind the hardware and software infrastructure choices for Internet and Intranet applications
- Inhibitors, critical success factors and differentiators in the implementation of S/390 platforms supporting Internet technology

Benefits to IBM

- · Gain improved understanding of S/390 customer usage of Internet technology
- · Understand S/390 customer plans for platforms to support Internet technology
- · Ensure an effective investment strategy for S/390 related to Internet and Intranet applications
- · Evaluate customer satisfaction with current Internet application platforms
- · Establish a profile of prospects for S/390 Internet platforms

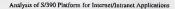
Issues Addressed

INPUT will make best efforts to address the following issues related to the usage of S/390 as a platform for Internet and Intranet applications;

- · What business processes, function and applications are being migrated to Internet technology?
- What are the business objectives driving these changes? How satisfied are users that these
 objectives being achieved?
- · Who is initiating the changes and who is responsible for the implementation?
- · What is the IT architecture being implemented to support these new applications?
- What are the hardware, software and services selection criteria being used for the Internet and Intranet projects? Who is involved in the selection process?
- What hardware and software platforms were considered and selected? What were the factors for and against the S/390?
- · What customer needs remain unmet?
- What is the potential for a packaged solution including S/390 hardware, software and services?
 What must be included in such a package in order for it to be considered as a platform for Internet

IBMS390 Page 1 of 3 Proprietary - INPUT







and/or Intranet applications? What additional features and functions would users like to be offered in such a package?

· What are users' plans for the future of the Internet/Intranet IT infrastructure?

Scope and Methodology of the Project

Project Scope

The project focuses on the existing \$/390 customer base.

 $\frac{50}{\text{Up}}$ to 100 customers will be interviewed regarding their experience and plans for migration to Intermet technology. The interviewees will also include customers who do not yet use Intranets or the Internet for business applications.

Comprehensive telephone interviews will be held with IS executives who are responsible for planning and selection of Internet-related hardware and software platforms, These interviews would consist of quantitative and qualitative questions.

Methodology

Experienced Interviews, Specially Trained in This Environment

The methodology that INPUT proposes using for this project is as follows:

- 1. Create a draft survey questionnaire.
- Meet with IBM to review the questionnaire and to receive a briefing from IBM on the S/390 product family and market
- INPUT will train the interviewers on those aspects of the S/390 market relevant to the Internet/Intranet market.
- 4. Conduct survey using names and contact information supplied by IBM
- 5. Tabulate and analyze the data tabulation
- 6. Prepare draft results and present to IBM
- 7. Prepare final report for delivery to IBM

Research Schedule

INPUT will complete the study within two months of the contract being signed.

At the end of week 1 of the study, INPUT will meet with IBM to review the proposed questionnaire and receive the S/390 briefing.

4/1 -





Qualifications

INPUT is highly qualified to conduct this work, having performed similar assignments for IBM and many other leading firms in the industry. An summary of some of the projects and a client case study are attached to illustrate examples of some of INPUT's experience.

This project will be led by Wilson Haddow, an INPUT Vice President, and the interview process will be managed by Joanne Ponnwitz. Biographies for Wilson and Joanne are attached. Other staff will be assigned to the project as required.

Fees

INPUT's professional fee for this project is \$46,000 (excluding applicable taxes).

One half of this fee is payable on contract authorization and the remained on delivery of the final report.

Out-of-pocket expenses (primarily travel and report production) will be billed at the end of the project and are not expected to exceed 10% of the total professional fee.

This proposal will remain valid for thirty days, unless extended in writing.

Contract Authorization

To authorize the project as specified, please sign and return one copy of this proposal. Upon acceptance by INPUT, a countersigned copy of the proposal will be returned to IBM and an invoice for 50% of the professional fee will be sent. Payment should be made on receipt of this invoice. The remaining 50% plus out-of-pocket expenses will be invoiced and payable on submission of the final report.

AUTHORIZED BY IBM:	ACCEPTED BY: INPUT
Name	Name
Title	Title
Date	Date



INPUT PROJECT EXPERIENCE: MARKET ANALYSES:



- Conducted customer satisfaction studies across multiple product lines for one of the largest producers of systems software.
- Assessed the acceptability of UNIX as a platform for a software company considering extending its products to new platforms.
- Studied the market position of the major suppliers to the real time operating system and tools market.
- Performed several studies on current and future networking software markets.
- Surveyed the needs, directions and platform ratings of ISVs for one of the largest manufacturers of specialized platforms.
- Reviewed the current and future competitive environment for a major DBMS supplier.
- Conducted primary research to assess the acceptability of using an object oriented software platform to produce maintainable/reusable code.
- Performed many studies in the CASE/applications development market (see separate listing).
- Have conducted many studies on market/product opportunities in many application software product segments. Through primary research identified needs, gaps, market size, growth, special opportunities, competitive environment, vendor strengths and weaknesses. Examples of segments studied:
 - Manufacturing/distribution (see separate listing)
 - Banking (see separate listing)
 - Insurance (see separate listing)
 - Federal government (see separate listing)
 - State/local government (see separate listing)
 - Financial planning and analysis software
 - Payroll/human resources



CLIENT CASE STUDY



Planning and Implementing Client/Server Support Services

The Client

A worldwide supplier of IT products and services

Client Objectives

- To size the overall U.S. market for client/server-related support services
- To quantify size and growth rates by vertical market, customer size and need factors
 - To identify the most-needed services current and future
- To understand the client's market position versus current and future competition
- To assess the regional differences
 - To understand the relationship between products and services
 - To transition from test to large scale rollout of the offering

INPUT's Role

Over a three month period, INPUT:

- Assisted in focusing and defining the client's objectives
- Developed and conducted a primary research plan
- Analyzed the quantitative and qualitative results of the research
 - Presented findings to client management
- Advised on rollout implications

Client Benefits

As a result of this engagement, the client received actionable information covering all the client's original objectives.

The study produced additional, important findings, such as

- The study showed how the client could shape the market's direction.
- The client took action to change its perceived strengths and weaknesses in this market.
- The study greatly increased the client's understanding of how an existing product relationship can support the delivery of services. Changes were made to the implementation plan as a result.

The information from this study was critical input for the client in making extensive modifications to its previous tactical implementation plan.





Wilson Haddow Vice President

PROFILE

CAPABILITIES

- Twenty years of international experience in the computer industry, including 15 years in consulting and computer services.
- With INPUT, Mr. Haddow is currently responsible for INPUT's research in the commercial market and manages INPUT's Market Analysis Program. Mr. Haddow was previously responsible for research in the Systems Integration, Professional Services and Outsourcing Information Systems programs.

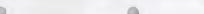
BACKGROUND

- Most recently, Director of Marketing for UNIX International, where he focused on marketing and the software and skills requirements for UNIX-based systems within Data Centers.
- He served at Unisys, in their European Headquarters as well as in the US in a variety of roles, including application software consultancy and support, Professional Services Program Management and UNIX product marketing.
- Wilson's qualifications also include working with a European software and services company on sales and support of general business application packages, and the creation of Office Automation division for a computer manufacturer.

EDUCATION

· B.Sc., Mathematics, Strathclyde University, Scotland







JOANNE E. PONNWITZ ASSOCIATE CONSULTANT

PROFILE

CAPABILITIES

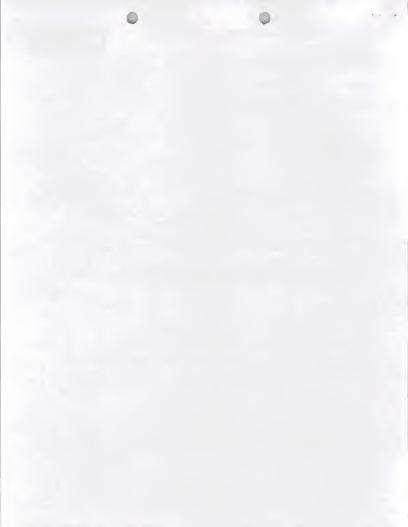
- Ten years experience in research project administration including questionnaire design, data collection and data tabulation.
- Highly concentrated skill with application specific software tools for data administration and statistical analysis and project/personnel performance tracking.
- Significant contributor to technical report creation including user case studies, vertical market reports, IS vendor profiles and vendor line of business profiles for acquisition searches.
- Highly effective and efficient interviewer of key decision makers on both technical and nontechnical
 topics in the information services industry. Key interviewer on 15 major proprietary projects
 involving over 1,000 detailed interviews since joining INPUT.

BACKGROUND

- Directed Market Research Library for major aftermarket manufacturer.
- · Directed research programs in-house and with vendor consulting firms.
- Functioned as an analyst/liaison between user community and the MIS department of a major manufacturer.

EDUCATION

- B.S., Psychology/Social Sciences, Syracuse University.
- · M.A., Accounting/Statistics, Fairleigh Dickinson University, in progress.



POK 132664

86. The following statements deal with general business strategy and operations goals. For each statement, please indicate the extent to which that goal will be an objective or strategy of <u>NAME 2</u> over the next three years. Rate each statement using the 6-point scale shown below.

By the way, if you believe a particular item is not applicable to NAME 2, then you would rate the statement a "1", since it could not then be an objective of NAME 2.

O۱	er the next three years	Objec Stra	Not Be : ctive or ategy AME 2	an	<u> </u>			Will Be One of the MOST CRITICAL Objectives or Strategies of <u>NAME 2</u>	
	Continually introduce new products and services		1	2	3	4	5	6	
	Redesign business functions		1	2	3	4	5	6	
	Provide timely monitoring of the performation of individual business functions	ance	1	2	3	4	5	6	
	Provide truly superior products/service to our company's customers		1	2	3	4	5	6	
	Utilize long-range planning to make prude day-to-day business decisions for the company	nt	1	2	3	4	5	· 6	
	Increase the degree of cross-departmental interaction		1	2	3	4	5	6	
	Reduce the length of time it takes to bring new products/services to market		1	2	3	4	5	6 .	
	Increase the <u>amount</u> of information availab to company employees who need it	le	1	2	3	4	5	6	
	Grow the company through strategic acquisitions and mergers		1	2	3	4	5	6	
	Introduce automated procedures		1	2	3	4	5	6	
	Reduce the cost of managing our basic logistical processes (e.g., controlling inventory, managing supplies)		1	2	3	4	5	6	
	Use information technology as a strategic asset/competitive lever for the company	-	1	2	3	4	5	6	



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	Will <u>Not</u> Be Objective or Strategy of <u>NAME 2</u>					Will Be One of the MOST CRITICAL Objectives or Strategies of <u>NAME 2</u>
Improve the timeliness of information	1	2	3	4	5	6
Distribute decision-making responsibilities lower levels	to 1	2	3	4	5	6
Reduce product/service production or manufacturing cycle time	1	2	3	4	5	6
Use low price to distinguish us from our competition	1	2	3	4	5	6
Improve the <u>accuracy</u> of information necessary for decision-making	1	2	3	4	5	6
Grow revenues as quickly as possible	I	2	3	4	5	6
Improve logistics of dealing with suppliers	1	2	3	4	5	6
Centralize company management decision- making	. 1	2	3	4	5	6
Reduce company operating costs	1	2	3	4	5	6
Improve our control over inventory and supply management systems	1	2	3	4	5	6

(PLEASE TYPE THE NUMBER CORRESPONDING TO YOUR ANSWER)



1997/1998 SEGMENTS

SEGMENT		CONTENT	DESCRIPTORS
TECHNOLOGY ADVANTAGE- LARGE	5A1 5A2	HLU2125 MIPS (symg260,msu≥23) - 962783, P4, R× - Skyline, Pilot, Millenium H5, GX8xx4, 5995-xx70 with - LIMKS or - R3, R4, Rx or - Skyline, Pilot, Millenium	Parallel sysplex capable Mostly multiple systems Newest, biggest systems Current software & techno. Large staff I/T critical to business Value high availability
BUSINESS CONSTRAINED	5 5 5	H5, GX8xx4, 5995-xx70 without - links or - Skyline, From or - Skyline, Pilot, Millenium 9673x 9672E/P HU½125 MIPS - 9672R3, R4 but - Used & without links	Prior "leading edge" Often multiple systems Current software Value function, but justification difficult Increased cost focus View I/T as an asset
TECHNOLOGY ADVANTAGE- MID SIZE	4A1 4A1 4A2 4A3	HLU≤124 MIPS (swmg≤50,msu≤22) - 9672Rl, R2 - Pilot, Millenium - 9672R3, R4, Rx - 2003	Primarily single system Highest 0S/390 content Limited staff Like solution offerings Leading edge image
STABLE GROWTH	4,3	H2 } new 9121, 9221 } new	Acquired NEW Moderate growth Fairly current software, but migration a concern Price sensitive
PRICE DRIVEN	2 2 2	H2 } used 9121, 9221 } used GX8xx2, GX6xxx, 5995-xx50	IBM acquired USED Very cost conscious Little value on new function Fairly current software, but migration a concern
MATURE	1 0 0	HO, 3090, GX8xx0, EX, 5990/5 9370, 43xx, 308X, 5890, 580 470V, XL, VL, AS	Old technology Back level software Single system, small staff Low operating costs No value on new funct/techno



SEGMENT / LEGEND

1995-1996 SEGMENT	DESCRIPTORS	VALUES
TECHNOLOGY ADVANTAGE	New HIGH-END SYS (H5/9672E) CURRENT SOFTWARE (9672R3/R4) LARGE STAFF MULTIPLE SYSTEMS COMPLEX	New function & technology I/S as critical to business sucess High Availability
BUSINESS CONSTRAINED	H2 Prior "Leading edge" Multiple systems Current software	VALUE FUNCTION, BUT JUSTIFICATION DIFFICULT SOME VALUE FOR VENDOR SUPPORT INCREASED COST FOCUS VIEW I/S AS AN ASSET
AIR SOLUTION ORIENTED	New Low-end technology (9121/9221/9672R1/9672R2/2003) HEAVY VSE CONTENT, USUALLY ESA LIMITED STAFF SINGLE SYSTEM	VENDOR SUPPORT SOLUTION OFFERINGS LEADING EDGE IMAGE
STABLE GROWTH	HO/J/S Moderate growth FAIRLY current software MIXED SINGLE/MULTIPLE SYSTEMS ACQUIRED NEW	Some value for technology Leading edge image Price sensitive S/W migration becomming significant
PRICE DRIVEN	HO/J/S Moderate growth FAIRLY current software MIXED SINGLE/MULTIPLE SYSTEMS ACQUIRED USED	VERY COST CONSCIOUS USED ACQUISITION LITTLE VALUE ON NEW FUNCTION
MATURE	OLD, LOW-MIP TECHNOLOGY BACK LEYEL SOFTWARE SINGLE SYSTEM SMALL STAFF	Low technology costs Low operating costs Place no value on new functions or technology



HLU SIZE / LEGEND

MIP RANGE	EXAMPLES: IBM	HDS	AMD
251 - 999	9672-E48,9021-9X2/982/972/962/952	GX8624	5995-8670
126 - 250	9672-R83,9021-900/942/941/860/820	GX8314	5995-4570
101 - 125	9672-R63,9021-720/822,3090-60J/50J	GX8212	5995-2570
76 - 100	9672-R52,9021-660,3090-40J,9121-732	GX8220	5995-2550
51 - 75	9672-R61,9021-500,3090-30J,9121-570	GX6425	5990-700
26 - 50	9672-R31,3090-30E/20J,9121-440,3084	GX6210	5990-500
11 - 25	9672-R11,3090-25S/18J,9121-260,3081	XL60	5890-19E
6 - 10	3090-12E/12J/10S,9221,4381	EX25	580-5840
1 - 5	4381,4361,4341,9370	EX11	



U.S. ESTAB DISTRIBUTION

01/01/96

SIZE	MATURE	PRICE	STABLE	AIR/SO	CONSTR	TECHNO	ESTABS
251-999					3	378	381
126-250					164	186	350
101-125		172	61	27	12	86	358
76-100	52	201	42	46	25	34	400
51-75	110	119	54	196		13	492
26-50	334	131	47	477	4	3	996
11-25	299	65	54	814			1232
6-10	875	4	8	539			1426
1-5	2404			543			2947
TOTAL	4074	692	266	2642	208	700	8582



SECTION D, ANNOUNCEMENT TRACKING

ASK EVERYONE:

D1a. Have you heard of IBM's OS/390?

- 1 YES > CONTINUE
- 2 NO > SKIP TO E1
- 7 NOT APPLICABLE (DO NOT READ) > SKIP TO E1
 8 DON'T KNOW (DO NOT READ) > SKIP TO E1
- 8 DON'T KNOW (DO NOT READ) > SKIP TO E1 9 REFUSED (DO NOT READ) > SKIP TO E1

D1b. Have you implemented IBM's OS/390?

- 1 YES > SKIP TO D4a
- 2 NO > CONTINUE
- 7 NOT APPLICABLE (DO NOT READ) > SKIP TO D4a
- 8 DON'T KNOW (DO NOT READ) > SKIP TO D4a
- 9 REFUSED (DO NOT READ) > SKIP TO D4a

D2. Are you planning to implement OS/390?

- 1 YES > CONTINUE
- 2 NO > SKIP TO E1
- 7 NOT APPLICABLE (DO NOT READ) > SKIP TO E1
- 8 DON'T KNOW (DO NOT READ) > SKIP TO E1
- 9 REFUSED (DO NOT READ) > SKIP TO E1

D3. When are you planning to implement OS/390? (READ LIST)

- 1 During the first half of 1997
- 2 During the second half of 1997
- 3 In 1998
 - After year 1998
- (DO NOT READ) 7 NOT APPLICABLE
- (DO NOT READ) 8 DON'T KNOW
- (DO NOT READ) 9 REFUSED



D4a. Are you aware of the OS/390 Internet Bonus Pak? (IF NECESSARY, SAY: You may also know this as the Internet Connection Server [ICS or ICSS] which is the OS/390's Web Server)

> VFS -CONTINUE NO -SKIP TO E1

(DO NOT READ) 7 NOT APPLICABLE -SKIP TO E1

SKIP TO E1 (DO NOT READ) 8 DON'T KNOW

SKIP TO E1 (DO NOT READ) 9 REFUSED

D4b. Are you using the OS/390 Internet Bonus Pak?

YES > SKIP TO D7a 2 NO CONTINUE

NOT APPLICABLE (DO NOT READ) 7

SKIP TO E1 DON'T KNOW (DO NOT READ) > SKIP TO E1 REFUSED (DO NOT READ) SKIP TO E1

9

D5. Are you planning to use the OS/390 Bonus Pak?

> YES -CONTINUE

NO -SKIP TO D7b

NOT APPLICABLE -(DO NOT READ) 7 SKIP TO D7b SKIP TO D7b (DO NOT READ) 8 DON'T KNOW

REFUSED SKIP TO D7b (DO NOT READ) 9

When are you planning to use the OS/390 Bonus Pak? (READ LIST) D6.

> 1 During the first half of 1997

2 During the second half of 1997

3 In 1998

After year 1998

NOT APPLICABLE (DO NOT READ)

DON'T KNOW (DO NOT READ) 8

REFUSED (DO NOT READ



IF "YES" (1) ON D5, ASK D7a. OTHERWISE, SKIP TO INSTRUCTIONS ABOVE D7b. D7a. Why are you using or are likely to use the OS/390 Bonus Pak? (READ LIST) (ACCEPT MULTIPLE RESPONSES)

- Business data and/or applications are already on the S/390 or mainframe
- 2 Skills are available for the S/390
- 3 It was provided "free of charge"
- 4 Our network is already connected to the S/390
- 5 It allows me to take advantage of OS/390 capabilities, such as scalability, security, and reliability
- 6 Incremental implementation is less expensive on the S/390 than on a separate server
- 96 Some other reason (SPECIFY)
- 97 NOT APPLICABLE
- 98 DON'T KNOW
- 99 REFUSED

SKIP TO E1

IF "NO" (2) ON D5, ASK D7b. OTHERWISE, SKIP TO E1.

D7b. Why are you not likely to use the OS/390 Bonus Pak? (READ LIST) (ACCEPT MULTIPLE RESPONSES)

- Benefits are insufficient or unclear (IF NECESSARY, SAY: Key benefits are proximity to business data and applications, reduced points of failure, scalability/security/reliability, use ofexisting skills or resources)
- 2 Implementation costs are too high
- 3 Lack of skills
- 4 Our Internet/intranet server is on a different platform
- 5 Lack of services offerings for installation or implementation
- 6 Web server is controlled by another business unit or is outsourced
- 7 There are no plans to implement a Web server
- 96 Some other reason (specify)
- 97 NOT APPLICABLE
- 98 DON'T KNOW
- 99 REFUSED

CONTINUE WITH E1



1997/1998 SEGMENTS

SEGMENT		CONTENT	DESCRIPTORS
TECHNOLOGY ADVANTAGE- LARGE	5A1 5A2	- 9672R3, R4, Rx - Skyline, Pilot, Millenium	Parallel sysplex capable Mostly multiple systems Neest biggest systes Current software & techno. Large staff I/T critical to business Value high availability
BUSINESS CONSTRAINED	5 5 5	H5, GX8xx4, 5995-xx70 without - links or - links or - Ry or - Skyline, Pilot, Millenium 9673, 9672E/P HUU2125 MIPS - 9672R3, R4 but - Used & without links	Prior "leading edge" Often multiple systems Cut the function, but justification difficult Increased cost focus View I/T as an asset
TECHNOLOGY ADVANTAGE- MID SIZE	4A1 4A1 4A2 4A3	HLUS124 MIPS (swmg550,msu522) - 9672R1, R2 - Pilot, Millenium - 9672R3, R4, Rx - 2003	Primarily single system Highest OS/390 content Limited staff Like solution offerings Leading edge image
STABLE GROWTH	4 4,3	H2 } new 9121, 9221 } new	Acquired NEW Moderate growth Fairly current software, but migration a concern Price sensitive
PRICE DRIVEN	2 2 2	H2 } used 9121, 9221 } used GX8xx2, GX6xxx, 5995-xx50	IBM acquired USED Very cost conscious Little value on new function Fairly current software, but migration a concern
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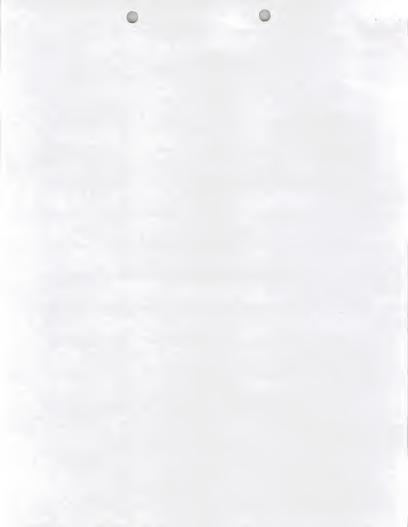
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BUSINESS CONSTRAINED	H2 PRIOR "LEADING EDGE" MULTIPLE SYSTEMS CURRENT SOFTWARE	VALUE FUNCTION, BUT JUSTIFICATION DIFFICULT SOME VALUE FOR VENDOR SUPPORT INCREASED COST FOCUS VIEW I/S AS AN ASSET
AIR SOLUTION ORIENTED	New Low-end Technology (9121/9221/9672R1/9672R2/2003) HEAVY VSE content, usually ESA Limited Staff Single system	VENDOR SUPPORT SOLUTION OFFERINGS LEADING EDGE IMAGE
STABLE GROWTH	HO/J/S Moderate growth Fairly current software Mixed single/multiple systems Acquired new	Some value for technology Leading edge image Price sensitive S/W migration becomming significant
PRICE DRIVEN	HO/J/S Moderate growth Fairly current software Mixed single/multiple systems Acquired used	VERY COST CONSCIOUS USED ACQUISITION LITTLE VALUE ON NEW FUNCTION
MATURE	OLD, LOW-MIP TECHNOLOGY BACK LEVEL SOFTWARE SINGLE SYSTEM SMALL STAFF	Low technology costs Low operating costs Place no value on new functions or technology



HLU SIZE / LEGEND

MIP RANGE	EXAMPLES: IBM	HDS	AMD
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126 - 250	9672-R83,9021-900/942/941/860/820	GX8314	5995-4570
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6 - 10	3090-12E/12J/10S,9221,4381	EX25	580-5840
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U.S. ESTAB DISTRIBUTION

01/01/96

SIZE	MATURE	PRICE	STABLE	AIR/SO	CONSTR	TECHNO	ESTABS
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11-25	299	65	54	814			1232
6-10	875	4	8	539			1426
1-5	2404			543			2947
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HLU SIZE / LEGEND

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1 - 5	4381,4361,4341,9370	EX11	



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U.S. ESTAB DISTRIBUTION

01/01/96

SIZE MATURE	PRICE	STABLE	AIR/SO	CONSTR	TECHNO	ESTABS
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126-250				164	186	350
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76-100 52	201	42	46	25	34	400
51-75 110	119	54	196		13	492
26-50 334	131	47	477	4	3	996
11-25 299	65	54	814			1232
6-10 875	4	8	539			1426
1-5 2404			543			2947
TOTAL 4074	692	266	2642	208	700	8582

W6UNIVER FRW 12/18/96 IBM CONFIDENTIAL ₹0/2T0 Ø



Fax Cover Sheet

То:	WILSON	HADDOW,	JOANNE	PONNIFE
	415.961-3	966 , 201	- 80/ - 04	141

From: Ronald C. Dombroski

Consulting Market Analyst

IBM System 390 Division

522 South Road (P124)

Poughkeepsie, NY 12601-5400

Phone: (914) 433-3091

Fax: (914) 432-9418

Subject: InTERNIEW STATUS AS OF SIL

No. of Pages: 2

(including cover sheet)

Notes: For Your Planumy PURPOSES



IBM B-005 SYSTEM 390

Date and time

From: WOLFWJ -- PKEDVM9 To: CARUSO --PKEDVM9 Joe Caruso

HHALL -- PKEDVM9 Henry Hall III KATHYK -- PKEDVM9 Kathy Kulchock

EHOGARTY -- PKEDVM9 Ed Hogarty JENNERI --NHBVM8 Ian Jenner KATHYM -- PKEDVM9 Kathy McGettrick RONCD -- PKEDVM9 Ron Dombroski

ROGERW --RHOVMO9 Roger Warmbir Subject: LCIP US Base Wave (#7) - Status Update

From: Bill Wolf System/390 Division

D/E47A, B/005-W331-5, MS/P124 Market Research & Business Support IBM Corp - 522 South Road Poughkaepsie, NY 12601-5400

FYI.

Regards, Bill IBM Mail: USIB4LWR

11A/C: 914 IT/L 11Fax: 432-94181292

3/19/97 14:02:16

Internet: wolfwi@vnet.ibm.com!!Tel: 433-30871293 *** Forwarding note from USFB4YB4 -- IBMMAIL 05/19/97 11:40 ***

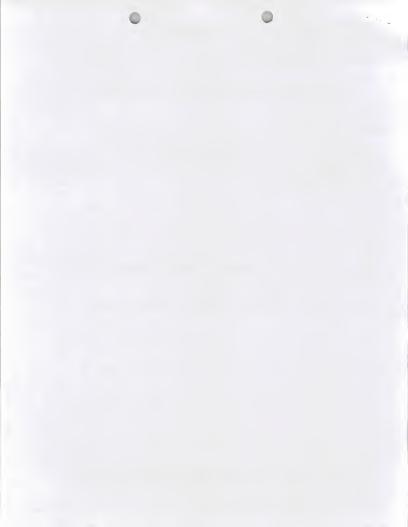
05/19/97, 16:40:49 GMT -- 05/19/97, 11:40:49 EST Date: From: USFRAYRA at IBMMAIL USIB4LWR at IBMMAIL Subject: LCIP - Wave 7 update

BILL,

BELOW IS A STATUS REPORT FOR LCIP-WAVE 7 INTERVIEWING AS OF DAY-END FRIDAY, MAY 16th.

SEGMENT	PHONE COMPLETES	DISK-BY- MAIL REQUESTS	DISK-BY- MAIL COMPLETES .	TOTAL COMPLETES	QUOTA
0	185		••	185	185
1	134			134	135
2	112	15	2	114	135
3	199	27	5	204	225
4	110	8	2	112	120
4A	140	24	3	143	300
5	55	5	2	57	120
5 A	58	4	1	59	180
TOTAL	993	83	15	1008	1400

We shouldn't have any problems meeting our requirements in Segments O through 4. Segments 4A through 5A will present problems in completing the required interviews. My mid-week, I will have a fair estimate of how many completes I think we will end up with.



Notes from meeting on 5/15/97 - This was the kick off meeting for the S390/Internet project.

IBM - Ron Dombroski

Kathy - Market Researcher

Rob - 390 marketing

Dana Brown - 390 Business Development

INPUT - Wilson Haddow

Joanne Ponnwitz

Objective of meeting:

Ensure full understanding of the project and context of the project within IBM 390 group. To discuss and evaluate how the current "Wave" research project should be used to feed this project with contacts, company/site details and what potential exists for the findings in the wave research to be cross-tabulated with the INPUT findings.

Meeting discussion:

Started with Rob giving an abbreviated S390 product pitch. This was naturally highly biased.

They want to uncover who controls and influences choice of Internet-related technology decisions. Where is the initiative for Web activity coming from? Do business believe that the web is involved in mission-critical processes and applications? What do the customers believe is "mission-critical"?

There are 40,000 S390s at approx. 30,000 sites. IBM segment the sites according to the power of the largest IBM (or HDS or Amdahl) machine installed. See attached profile listing. The largest sites (size 4A, 5 and 5A) are of most interest to IBM from our survey as they produce the most business but they account for only approx. 20% of the sites in the US

The majority of large accounts have over 1000 employees.

They have a pictorial view as follows:



IBM S390 Market Segmentation - with percentage of Internet applications

	Enabled with a web server	Other platform Internet implementation	Virgins
Large - 80+% of revenue from 20% of base	5%	85%	5%
General Business	Not applicable		

I suggested that they should also include the size 2-4 sites as they are mostly older machines and therefore they have potential for new hardware sales - they also provide customer with opportunity to consider replacement of S390 with alternative platform.

Given the size of sample (100 interviews maximum) was agreed that analysis by industry is not practical. However, the primary verticals for the S390 are:

Insurance
Banking
Travel
State and Federal Government
Health
Telecommunications

I suggested they should identify if the need for web-based applications is being pushed by IBM or pulled by the users. This has a significant impact on the marketing messages that may be used and the sales approach taken.

IBM want to concentrate on existing base for now.

The marketing presentation concentrated on e-commerce - I said they need to look at Intranets as this was area of most expenditure today. They used the slide showing evolution from Access; Presence, Integration, Transaction. I explained that I have used similar slide but that I have modified it to show Access; Presence; Business Operation; Revenue Generation and that Integration is an activity that helps move from static information on web site (Presence) to transaction-based information.

I explained our view of e-business relating to customer-initiated transaction going right into the internal systems.

Mail List Change Order Upoate Correction Deletion Addition Serial Number
U.S. COMMERCIAL
1. TYPE Uvendor User Investor / Financial Media / Press Other EDI Newsletter
2. LEVEL
3. INTERESTS C/S Computer Systems Networks EC Information Services — Software Products — Professional Services, SI Industry Outsourcing, Processing, Network Services
U.S. FEDERAL MMAR FPAP FPAW FPFA Other
EUROPE
*No names will be added without a completed change order and program manager approval. Program Manager Authorization
CONTACT REPORT Company Continuation
Name

1997/1998 SEGMENTS

SEGMENT		CONTENT	DESCRIPTORS
TECHNOLOGY ADVANTAGE- LARGE	5A1 5A2	- 9672R3, R4, Rx - Skyline, Pilot, Millenium	Parallel sysplex capable the styre multiple systems the systems constructed by the systems current software & techno. Large staff I/T critical to business Value high availability
BUSINESS CONSTRAINED	5	H5, GX8xx4, 5995-xx70 without - links or - R5, R4 or - R5, R4 or - R5, R4 or - R5, R5, R5 or - R5,	Prior "leading edge" Often multiple systems Curent software Value function, but Justification difficult Increased cost focus View I/T as an asset
TECHNOLOGY ADVANTAGE- MID SIZE	4A1 4A1 4A2 4A3	HLUS124 MIPS (swmg550,msu522) - 9672R1, R2 - Pilot, Millenium - 9672R3, R4, Rx - 2003	Primarily single system Highest OS/390 content Limited staff Like solution offerings Leading edge image
STABLE GROWTH	4,3	H2 } new 9121, 9221 } new	Acquired NEW Moderate growth Fairly current software, but migration a concern Price sensitive
PRICE DRIVEN	2 2 2	H2 } used 9121, 9221 } used GX8xx2, GX6xxx, 5995-xx50	IBM acquired USED Very cost conscious Little value on new function Fairly current software, but migration a concern
MATURE	1 0 0	H0, 3090, GX8xx0, EX, 5990/5 9370, 43xx, 308X, 5890, 580 470V, XL, VL, AS	Old technology Back level software Single system, small staff Low operating costs No value on new funct/techno



SEGMENT / LEGEND

1995-1996 SEGMENT	DESCRIPTORS	VALUES
TECHNOLOGY ADVANTAGE	New High-end sys (H5/9672E) Current software (9672R3/R4) Large Staff Multiple systems complex	New function & technology I/S as critical to business sucess High Availability
BUSINESS CONSTRAINED	H2 Prior "Leading edge" Multiple systems Current software	VALUE FUNCTION, BUT JUSTIFICATION DIFFICULT SOME VALUE FOR VENDOR SUPPOR' INCREASED COST FOCUS VIEW I/S AS AN ASSET
AIR SOLUTION ORIENTED	New Low-end technology (9121/9221/9672R1/9672R2/2003) HEAYY VSE content, usually ESA Limited staff Single system	VENDOR SUPPORT SOLUTION OFFERINGS LEADING EDGE IMAGE
STABLE GROWTH	HO/J/S Moderate growth Fairly current software Mixed single/multiple systems Acquired new	Some value for technology Leading edge image Price sensitive S/W migration becomming significant
PRICE DRIVEN	HO/J/S Moderate growth FAIRLY CURRENT SOFTWARE MIXED SINGLE/MULTIPLE SYSTEMS ACQUIRED USED	VERY COST CONSCIOUS USED ACQUISITION LITTLE VALUE ON NEW FUNCTION
MATURE	OLD, LOW-MIP TECHNOLOGY BACK LEVEL SOFTWARE SINGLE SYSTEM	Low TECHNOLOGY COSTS Low operating costs Place no value on new

SMALL STAFF

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FUNCTIONS OR TECHNOLOGY



Fax Cover Sheet

TO: WILSON HADDON	w w						
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Subject:							

No. of Pages:

(including cover sheet)

Notes: Lesponses to questions
C1 to C4C would sene as

Cur primary screening Criteria. Responses from fria "wave" are graphe



P.02

SECTION C. NEW INSIGHTS

ASK EVERYONE:

C1. Now, we're going to talk about the Internet and value added network providers, or VANs, such as AT&T Global Network Services. IBM Global Network / Advantis, etc.

For each of the following activities, please tell me whether this is something your location currently does, plans to do in the next six months, plans to do sometime after the next six months, or has no plans at all to do this. (DO NOT RANDOMIZE LIST. ASK FOR EACH.)

- 1 CURRENTLY DOES
- 2 PLANS TO DO THIS WITHIN THE NEXT SIX MONTHS
- 3 PLANS TO DO THIS SOMETIME AFTER THE NEXT SIX MONTHS
- 4 HAS NO PLANS AT ALL TO DO THIS
- 7 NOT APPLICABLE / NOT RESPONSIBLE FOR THESE ACTIVITIES
- 8 DON'T KNOW (DO NOT READ)
- 9 REFUSED (DO NOT READ)
- Access the Internet to search for electronic content to support business operations (IF "NOT APPLICABLE / NOT RESPONSIBLE," SKIP TO C7.)
- b. Connect to the Internet to post a "home page" on a World Wide Web server
- Use the Internet or a VAN to exchange data with business partners
- d. Use the Internet or VAN to access a network enabled application in support of your business.
 (IF NECESSARY, SAY: An application delivered via a network, typically by subscriptions, for package tracking, travel reservations or similar activities)
- Deploy a network enabled application for your customers to use that is accessible via the Internet or a VAN such as customer service or order entry
- f. Implement an "Intranet" or internal network, which uses Internet technology that is accessible within your organization
- g. Implement a formal strategy to leverage the Internet for your organization

ASK C2 AND C3 OF THOSE WITH 1-3 ON C1, ITEM "b."
ALL OTHERS SKIP TO INSTRUCTIONS ABOVE C4s.



- - 1 MAINFRAMES
 - MIDRANGE OR MINI-COMPUTERS 2
 - 3 PCs OR PC-SERVERS
 - UNIX OR RISC WORKSTATIONS/SERVERS
 - OTHER (SPECIFY):
 - NOT APPLICABLE 7
 - DON'T KNOW
 - Q REFUSED
 - How important is it that your "home page" on your World Wide Web server have access to C3. mainframe data? For example, allowing customers to access order status or account balances. Please use a scale of 1 to 5 where 1 is "not at all important" and 5 is "very important."

VERV NOT AT ALL IMPORTANT IMPORTANT 3

ASK C48 OF THOSE WITH 1-3 ON C1, ITEM "e". ALL OTHERS SKIP TO INSTRUCTION ABOVE C4c.

- C4a. You indicated that you have or are planning to deploy a network enabled application for your customers to use that is accessible via the Internet or a VAN. What is the primary platform you are using or planning to use for this network enabled application? (PROBE FOR ONE RESPONSE)
 - MAINFRAMES
 - MIDRANGE OR MINI-COMPUTERS 2
 - PCs OR PC-SERVERS 3
 - UNIX OR RISC WORKSTATIONS/SERVERS 4
 - OTHER (SPECIFY): 6
 - NOT APPLICABLE 7
 - 8 DON'T KNOW
 - Q REFUSED
- C4b. How important is it that this network enabled application have access to mainframe data? For example, customer service inquiries or order placement. Please use a scale of 1 to 5 where 1 is "not at all important" and 5 is "very important."

NOT AT	ALL		7	VERY				
IMPORTANT			IMPORTANT		NA	DK	REF	
1	2	3	4	5	7	8	9	



C4c. You indicated that you have or are planning to implement an intranet. What is the primary platform you are using or planning to use for your intranet server? (PROBE FOR ONE RESPONSE)

- 1 MAINFRAMES
- 2 MIDRANGE OR MINI-COMPUTERS
- 3 PCs OR PC-SERVERS
- 4 UNIX OR RISC WORKSTATIONS/SERVERS
- 6 OTHER (SPECIFY) :_____
- 7 NOT APPLICABLE
- 8 DON'T KNOW
- 9 REFUSED

C5 AND C6 OMITTED

ASK EVERYONE:

- C7. Let's go to the topic "The year 2000". Which of the following best describes where you (your location) are in terms of preparing your mainframes to deal with the two digit date change in the year 2000? Would you say you have...? (READ LIST. RECORD FIRST MENTION. IF NECESSARY SAY; Where are you in terms of your overall effort?)
 - Decided on a course of action and have made significant progress (DO NOT READ: INCLUDING HAVE ALREADY COMPLETED ACTION.)
 - 2 Decided on a course of action and have made some progress
 - 3 Decided on a course of action, but have not yet taken steps to address the date change,
 - 4 Not yet decided on a course of action, or
 - 5 Have explored, but it is not an issue (DO NOT READ: SYSTEMS ALREADY SUPPORT IT)
 - 7 NOT APPLICABLE (DO NOT READ)
 - 8 DON'T KNOW (DO NOT READ)
 - REFUSED (DO NOT READ)

IF "NOT AN ISSUE" (5 ON C7), SKIP TO Q.C10; OTHERWISE, CONTINUE WITH C7a.

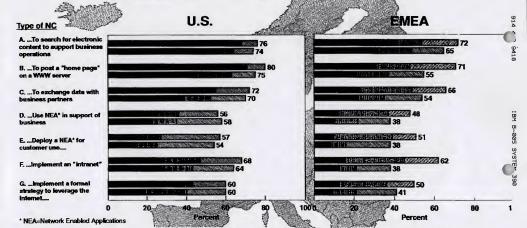


Current/Planned Network Computing

Preliminary 1/31/97

LCIP EMEA Wave 6

Both US and Europe Show Growth Plans For NC



O.C.1: Foceach of the following activities (A through G), please tell me whether this is something your focation currently does, plans to do within the next six months, plans to do sometime after the next six months, or has no plans at all to do this.

Currently 6 Months Plan MAfter 6 Months

Currently 6 Months Plan After 6 Months

Wave 6 (4Q96)

Wave 5 (2Q96)

S/390 Establishments

■ Currently ■ 6 Months Plan 🖾 After 6 Months

■ Currently **四** 6 Months Plan **After** 6 Months

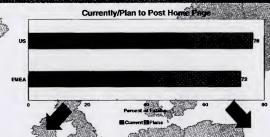


Network Computing: Web Server

Preliminary 1/31/97

I CIP FMEA

PC Servers Most Popular Choice as Web Server



Choice of Web Server

Choice of Web Server



S/390 Establishments





EMEA - WS



Q.C2: Current/Planned users: What is the primary platform you are using or planning to use for your WWW Server?

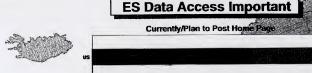
■ Mainframe ■ Midrange/Mini ■ PC/PC Server ■ UNIX/FISC



Network Computing: ES Data Access



LCIP EMEA Wave 6





S/390 Establishments

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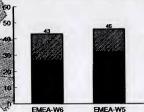
30 20 10

2/97

U.S.-W6



Current E Plans



WWW Server Access to Mainframe Data

Q.C4: If you are posting or planning to post a "home page".... How important is it to have your WWW server have access to mainframe data?.....allowing customers to access order status e.g., or account balances. Use scale: (1 Not Important). 5(Wey Important)

U.S. W5

LCIPE62D.PRE-33

